

# Harmony<sup>®</sup> K, Ø 16-22 cam switches

Catalog

March 2015



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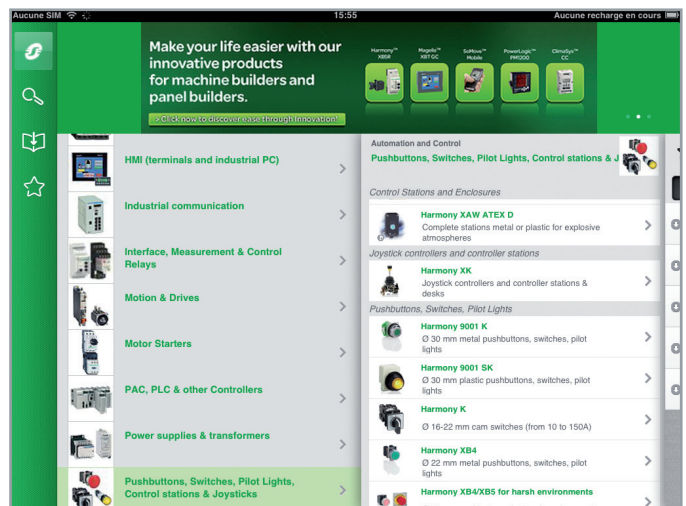
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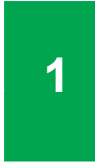


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**Selection guide, functions panorama**

*Selection guide* ..... 1/2

■ **Functions panorama** ..... 1/4



# Cam switches

## Type K

1

<b>Applications</b>	Used in building control panels and consoles, type K cam switches allow control of processes and utilities in industry and buildings and direct control for simple machines.	
<b>Functions</b>		
Off-On/On-Off switches	1 to 4-pole	1 to 6-pole
Stepping switches	2 to 4-position, 1 and 2-pole	2 to 12-position, 1 to 4-pole
Changeover switches	1 to 4-pole	1 to 5-pole
Measurement switches	Voltmeter and ammeter	Voltmeter and ammeter
Reversing switches	-	2 and 3-pole
Reversing star-delta switches	-	-
Pole change switches	-	2 and 3-speed



<b>Conventional rated thermal current (I<sub>th</sub>)</b>	<b>10 A</b>	<b>12 A</b>
<b>Rated insulation voltage (U<sub>i</sub>)</b>	440 V	690 V
<b>Electrical operating characteristics</b>	AC-15 - A300 240 V - 3 A	AC-3 - 3-phase 230 V - 1.1 kW - 4.6 A AC-15 230 V - 3 A
<b>Front plate degree of protection</b>	IP 65	IP 40 IP 65 (with seal)
<b>Product composition</b>	Complete switches	Complete switches Adaptable sub-assemblies Special products (Consult our Customer Care Centre)
<b>Compatibility</b>	Ø 16 and Ø 22 control and signaling units	Ø 22 control and signaling units
<b>Fixing</b>		
Front mounting	Single Ø 16 or Ø 22 hole	Multi-fixing Single Ø 22 hole
Rear mounting	-	Screw fixing, 4 holes on 36 mm/1.42 in. centres
<b>Front plate dimensions (mm)</b>	30 x 30 mm/1.18 x 1.18 in.	45 x 45 mm/1.77 x 1.77 in. 60 x 60 mm/2.36 x 2.36 in. (adaptable sub-assemblies)
<b>Operating heads</b>	Black standard handle Metallic legend, black marking	Black and red standard and long handles Key operator Metallic head Metallic legend with black marking or black legend with white marking
<b>Approvals</b>	cULus EN/IEC 60947-3 EN/IEC 60947-5-1	UL-CSA EN/IEC 60947-3 EN/IEC 60947-5-1
<b>Type</b>	<b>Type K10</b>	<b>Type K1/K2</b>
<b>Cam switch model</b>	<b>K10●</b>	<b>K1●</b>



More technical information on [www.schneider-electric.com](http://www.schneider-electric.com)

Functions		Complete switches 10 A
<b>Switches</b>	with 60° switching angle	See pages
	with 45° switching angle	2/3
	with 90° switching angle	-
	ON-OFF with spring return from 30° to "0" position	-
	OFF-ON with spring return from 30° to "0" position	-
	OFF-ON with spring return from 120° to 90°	-
	OFF-ON with spring return from 30° and from 330° to "0" position	-
	OFF-ON with 45° switching angle	-
	OFF-ON with momentary-contact function	-
	paralleling with "0" position	-
	OFF-ON changeover with spring return from 240° to 270° and from 120° to 90°	-
	<b>Stepping switches</b>	single-pole with or without "0" position
2-pole with or without "0" position		2/4, 2/5
2 to 5 step, single-pole, with or without "0" position		-
2 to 5 step, 2-pole, with or without "0" position		-
2 and 3 step, 3-pole, with or without "0" position		-
2 to 11 step, single-pole, with "0" position		-
2 to 12 step, single-pole, without "0" position		-
2 to 6 step, 2-pole, with or without "0" position		-
2 to 6 step, 3-pole, with or without "0" position		-
2 to 5 step, 4-pole, with or without "0" position		-
2 and 3 step, with "0" position + left-hand position		-
3 step, without "0" position		-
4 step, 4-pole, without "0" position		-
2 step, with "0" position		-
3 step, 2-pole, with "0" position		-
5 step, 2-pole, with "0" position	-	
<b>Changeover switches</b>	spring return to "0" position	2/5
	with or without "0" position	2/6
	1 to 4-pole with "0" position	-
	1 to 4-pole without "0" position	-
	1-pole, 2-pole, 3-pole with "0" position	-
	star-delta and reversing star-delta pole change	-
<b>Voltmeter switches</b>	with "0" position	2/7
	without "0" position	-
<b>Ammeter switches</b>	with "0" position	2/7
	without "0" position	-
<b>Selector switches</b>	BCD encoded output, with "0" position	-
	BCD encoded output, without "0" position	-
	multi-circuit	-
	star-delta and reversing star-delta	-
<b>Reversing switches</b>	with "0" position	-
	with spring return from 330° and from 30° to "0" position	-
	with spring return from 315° and from 45° to "0" position	-
	with spring return from 240° to 270° and from 120° to 90°	-
	with momentary-contact function	-
<b>Pole change switches</b>	for 2-speed motors	-
	for 3-speed motors	-
<b>Start selector switches</b>	3-position with "0" position	-
	4-position with "0" position	-
<b>Starting switches</b>	star-delta and reversing star-delta	-
	pole change	-



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## Complete switches, 10 A

■ General .....	2/2
■ Front mounting by Ø 16 or 22 mm hole, with 30 x 30 mm front plate .....	2/3
□ Switches and stepping switches .....	2/3
□ Changeover switches .....	2/5
□ Voltmeter and ammeter switches .....	2/7



# Cam switches

## Complete switches, 10 A

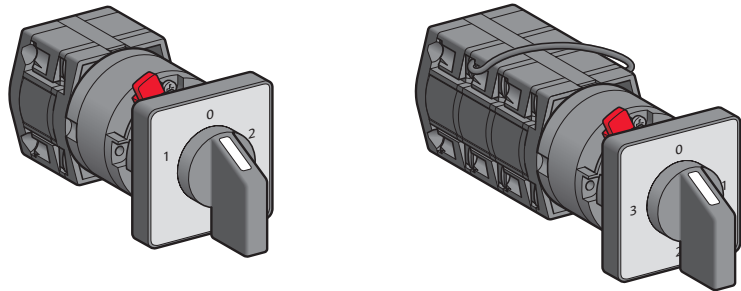
The range of K10 cam switches (10 A rating) comprises only complete switches. These products are more specifically designed for process control applications:

- compact size,
- easy to integrate with other  $\varnothing 16 \text{ mm}/0.63 \text{ in.}$  and  $\varnothing 22 \text{ mm}/0.87 \text{ in.}$  units,
- selection functions.

### Complete switches

- switches
- stepping switches
- changeover switches
- voltmeter switches
- ammeter switches

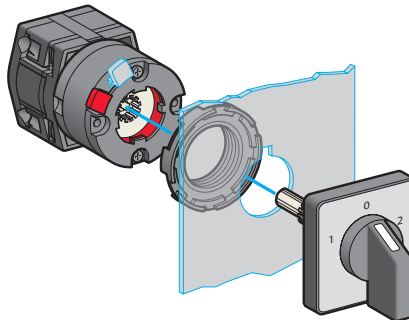
### Front mounting



By  $\varnothing 16.3 \text{ mm}/0.64 \text{ in.}$  or  $\varnothing 22.3 \text{ mm}/0.88 \text{ in.}$  hole

### Mounting

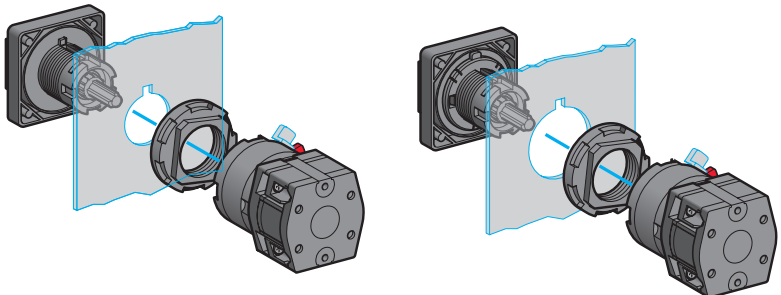
### $\varnothing 16$ or $\varnothing 22$ hole fixing



Locking/unlocking of the body-head assembly by spigot

### $\varnothing 16$ hole fixing

### $\varnothing 22$ hole fixing



# Cam switches

Complete switches, 10 A

Front mounting by Ø 16 or Ø 22 mm hole

With 30 x 30 mm front plate



K10B002ACH

### Switches with 60° switching angle

Wiring diagram and switching programme	Marking and switch position	Number of poles	Reference	Weight kg/lb
		1	K10A001ACH	0.030/0.066
		2	K10B002ACH	0.035/0.077
		3	K10C003ACH	0.045/0.099
		4	K10D004ACH	0.045/0.099

### Stepping switches, single-pole, with "0" position

Wiring diagram and switching programme	Marking and switch position	Number of steps	Reference	Weight kg/lb
		2 + "0" position	K10B002QCH	0.035/0.077
		3 + "0" position	K10C003QCH	0.045/0.099
		4 + "0" position	K10D004QCH	0.045/0.099



K10D004QCH

# Cam switches

Complete switches, 10 A

Front mounting by Ø 16 or Ø 22 mm hole

With 30 x 30 mm front plate

2

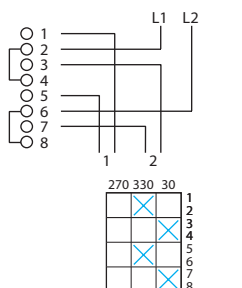
550259



K10D012QCH

## Stepping switches, 2-pole, with "0" position

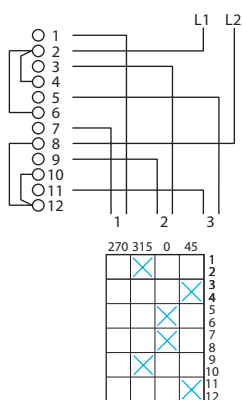
Wiring diagram and switching programme	Marking and switch position	Number of steps	Reference	Weight kg/lb
--	-----------------------------	-----------------	-----------	--------------



2 + "0" position

K10D012QCH

0.045/0.099



3 + "0" position

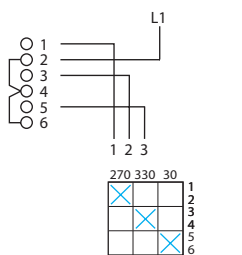
K10F013QCH

0.055/0.121



## Stepping switches, single-pole, without "0" position

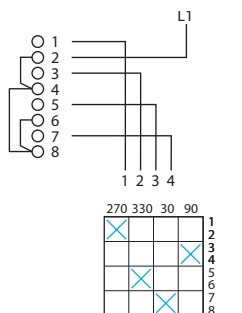
Wiring diagram and switching programme	Marking and switch position	Number of steps	Reference	Weight kg/lb
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3

K10C003NCH

0.045/0.099



4

K10D004NCH

0.045/0.099





# Cam switches

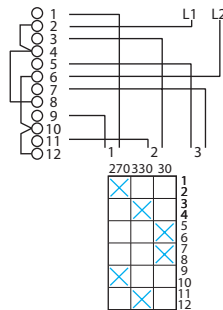
Complete switches, 10 A

Front mounting by Ø 16 or Ø 22 mm hole

With 30 x 30 mm front plate

## Stepping switch, 2-pole, without "0" position

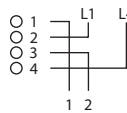
Wiring diagram and switching programme	Marking and switch position	Number of steps	Reference	Weight kg/lb
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3      **K10F013NCH**      0.055/0.121

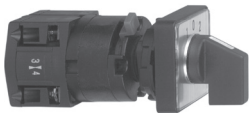
## Changeover switch with spring return to "0" position

Wiring diagram and switching programme	Marking and switch position	Number of poles	Reference	Weight kg/lb
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1      **K10B006TCH**      0.035/0.077

550280



K10B006TCH

2

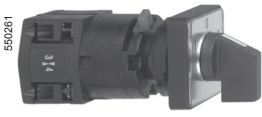
# Cam switches

Complete switches, 10 A

Front mounting by Ø 16 or Ø 22 mm hole

With 30 x 30 mm front plate

2



K10F003UCH

## Changeover switches with "0" position

Wiring diagram and switching programme	Marking and switch position	Number of poles	Reference	Weight kg/lb
		1	K10B001UCH	0.035/0.077
		2	K10D002UCH	0.045/0.099
		3	K10F003UCH	0.055/0.121
		4	K10H004UCH	0.065/0.143

## Changeover switches without "0" position

		1	K10B011UCH	0.035/0.077
		2	K10D012UCH	0.045/0.099
		3	K10F013UCH	0.055/0.121
		4	K10H014UCH	0.065/0.143

# Cam switches

Complete switches, 10 A

Front mounting by Ø 16 or Ø 22 mm hole

With 30 x 30 mm front plate

550262



K10F027MCH

## Voltmeter switches

For measurements between 3 phases and between 1 phase and neutral

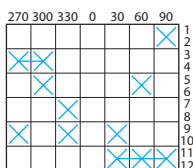
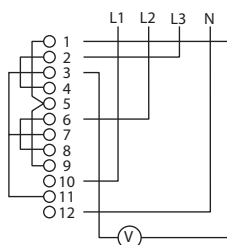
Wiring diagram and switching programme

Marking and switch position

Reference

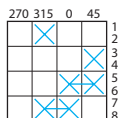
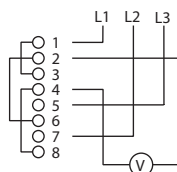
Weight kg/lb

K10F027MCH 0.055/0.121



For measurements between 3 phases, with "0" position

K10D024MCH 0.045/0.099



## Ammeter switches

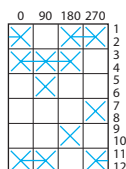
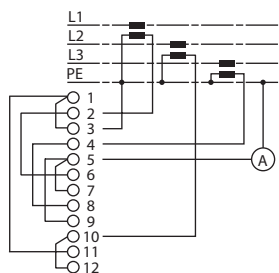
For 3 circuits, with "0" position

K10F003MCH 0.055/0.121

550263



K10F003MCH





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## Complete switches, 12 and 20 A

- **General**
- Complete switches and adaptable sub-assemblies, 12 and 20 A..... 3/2
- **Front mounting “multi-fixing” or by Ø 22 mm hole, with 45 x 45 mm front plate**
- Switches ..... 3/6
- Stepping switches ..... 3/9
- Reversing and changeover switches ..... 3/15
- Ammeter switches ..... 3/16
- Voltmeter switches ..... 3/18

# Cam switches

Complete switches and adaptable sub-assemblies, 12 and 20 A

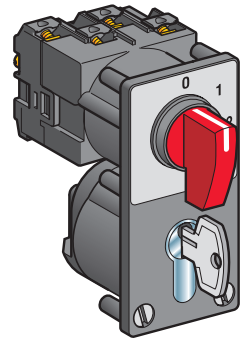
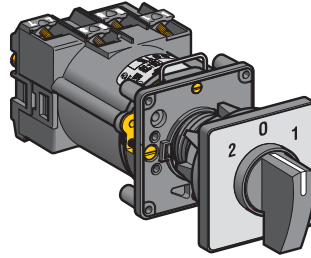
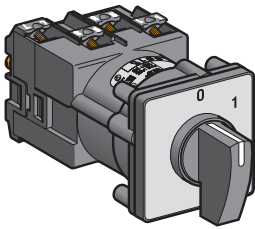
The cam switch range comprises the equally dimensioned and similar looking products of the K1 (12 A rating) series and K2 (20 A rating) series. Both series feature complete switches and adaptable sub-assemblies for user assembly.

## Complete switches

### Front mounting

- switches
- stepping switches (2 to 5 step)
- reversing and 1 to 4-pole changeover switches
- ammeter and voltmeter switches

3



"Multi-fixing"

By Ø 22 mm/0.87 in. hole

Front mounting by 6 screws  
Ø 5.2 mm/0.20 in. and  
55 x 100 mm/2.16 x 3.94 in.  
front plate

K1●●●●●H, K2●●●●●H

See pages 3/6 to 3/13

K1●●●●●H, K2●●●●●H

See pages 3/6 to 3/13

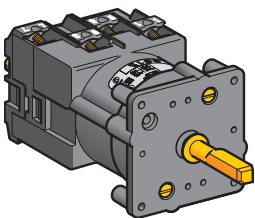
K1●●●●●Z●

See pages 5/2 to 5/7

## Switches for user assembly

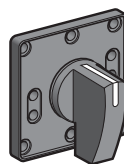
### Front mounting

#### Body sub-assembly



#### Head sub-assembly

- With 45 x 45 mm/1.77 x 1.77 in. front plate and 35 mm/1.38 in. handle



"Multi-fixing"

With blank legend

With marked legend

Without legend

K1●●●●●L, K2●●●●●LL

See pages 4/2 to 4/33

K●G3H

See page 4/34

KCG3H

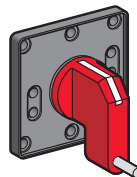
See page 4/34

KDG3H

See page 4/34

#### Head sub-assembly

- With 45 x 45 mm/1.77 x 1.77 in. front plate, 35 mm/1.38 in. handle and padlocking device



With marked legend

KCG3Y

See page 4/34

Without legend

KDG3Y

See page 4/34

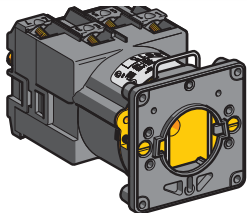
# Cam switches

Complete switches and adaptable sub-assemblies, 12 and 20 A

## Switches for user assembly (continued)

### Front mounting (continued)

#### Body sub-assembly



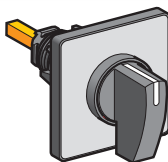
With Ø 22 mm/0.87 in. hole

**K1●●●●●●, K2●●●●●●L**

See pages 4/2 to 4/33

#### Head sub-assembly

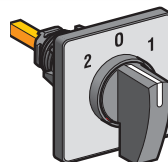
■ With 45 x 45 mm/ 1.77 x 1.77 in. front plate and 35 mm/1.38 in. handle



With blank legend

**K●C1H**

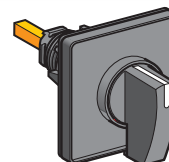
See page 4/34



With marked legend (1)

**K●C1●●**

See page 4/34



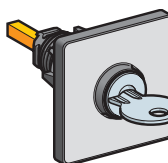
Without legend

**KDC1●●**

See page 4/34

#### Head sub-assembly

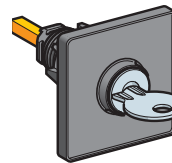
■ With 45 x 45 mm/1.77 x 1.77 in. front plate and key operator



With blank legend

**K●C1●**

See page 4/34



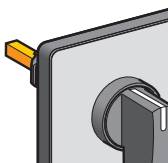
Without legend

**KDC1●**

See page 4/34

#### Head sub-assembly

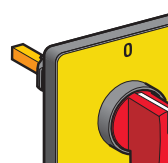
■ With 60 x 60 mm/2.36 x 2.36 in. front plate and 42 mm/1.65 in handle



With blank legend

**K●D1H**

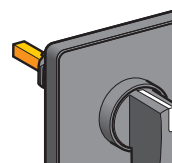
See page 4/34



With marked legend

**KCD1MH**

See page 4/34



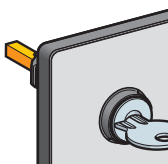
Without legend

**KDD1H**

See page 4/34

#### Head sub-assembly

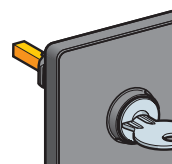
■ With 60 x 60 mm/2.36 x 2.36 in. front plate and key operator



With blank legend

**K●D1●**

See page 4/35



Without legend

**KDD1●**

See page 4/35

#### Head sub-assembly

■ Circular with plastic bezel



Key operator

**K●A1●**

See page 4/35



35 mm/1.38 in. handle

**K●A1H**

See page 4/35

(1) With or without padlocking device.

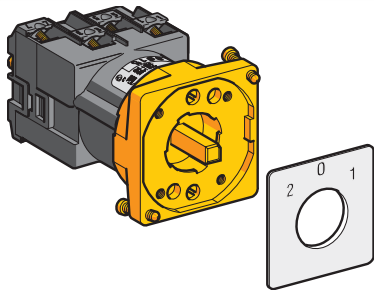
# Cam switches

Complete switches and adaptable sub-assemblies, 12 and 20 A

## Switches for user assembly (continued)

### Front mounting (continued)

#### Body sub-assembly



With  $\varnothing$  22 mm/0.87 in. hole and metal mounting plate  
**K1●●●●●K, K2●●●●●X**  
 See pages 4/2 to 4/33

#### Head sub-assembly

- Circular with metal bezel



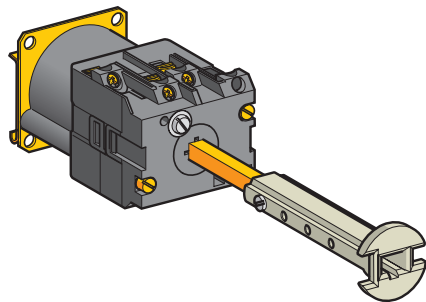
Standard handle  
**KAXZ1M1●**  
 See page 4/35

Long handle  
**KAXZ1C1●**  
 See page 4/35

Key operator  
**KAXZ1S1●●**  
 See page 4/35

### Rear mounting

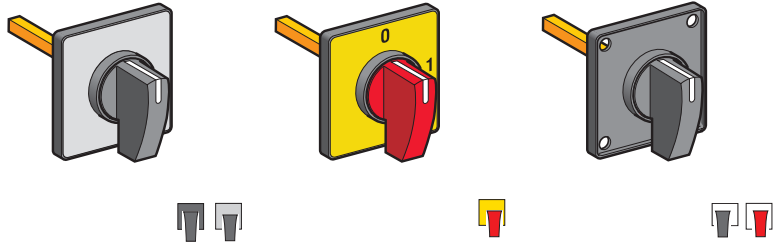
#### Body sub-assembly



With 4 holes  
**K1●●●●●, K2●●●●●**  
 See pages 4/2 to 4/33

#### Head sub-assembly

- With 45 x 45 mm/1.77 x 1.77 in. front plate and 35 mm/1.38 in. handle



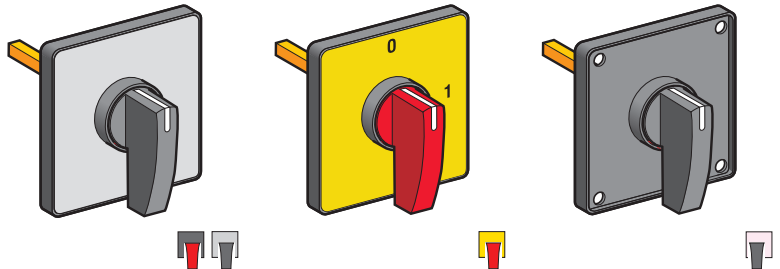
With blank legend  
**K●E1H**  
 See page 4/35

With marked legend (1)  
**KCE1●**  
 See page 4/35

Without legend  
**KDE1●**  
 See page 4/35

#### Head sub-assembly

- With 60 x 60 mm/2.36 x 2.36 in. front plate and 42 mm/1.65 in handle



With blank legend  
**K●F1H**  
 See page 4/35

With marked legend  
**KCF1MH**  
 See page 4/35

Without legend  
**KDF1H**  
 See page 4/35

(1) With or without padlocking device.

## Accessories

Various accessories complement the K1 - K2 cam switch range: legends, legend holders, terminal covers, seals, etc. See pages 4/36 to 4/41.

## Switches with specific schemes

If you cannot find a standard switching programme listed in this catalogue to suit your application, please consult our Customer Care Centre.



# Cam switches

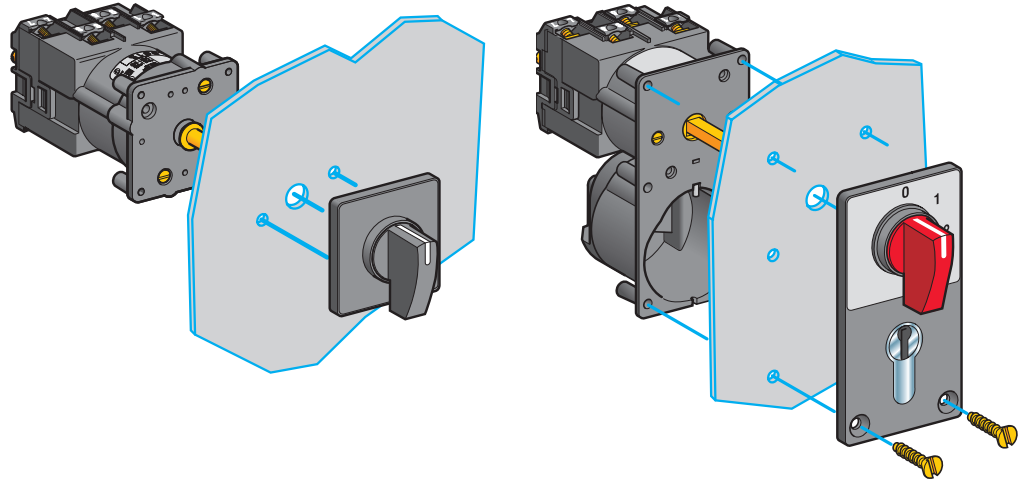
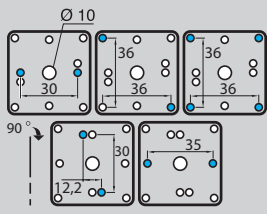
Complete switches and adaptable sub-assemblies, 12 and 20 A

The cam switches are available to suit various mounting and fixing methods.

## Fixing

### Front mounting

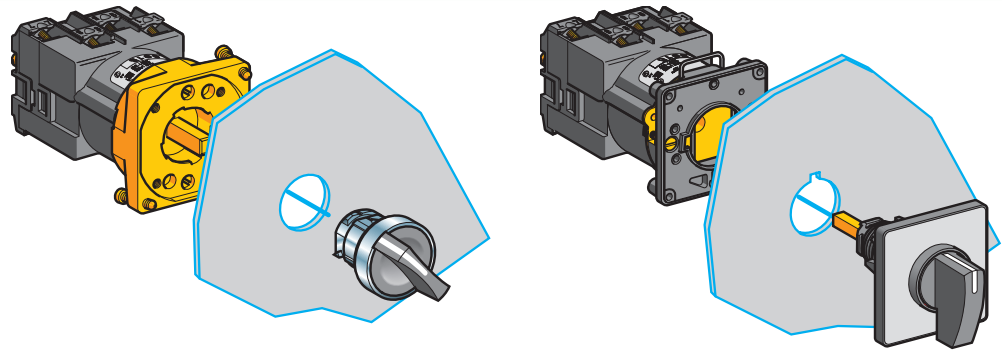
By means of "multi-fixing" front plate, using 2 or 4 screws



The "multi-fixing" concept enables the switch to be panel mounted using the most commonly used fixing centre dimensions. See drawing to left.

Fixing by 6 screws  $\varnothing$  5.2 mm and 55 x 100 mm front plate.

### By means of single $\varnothing$ 22 mm/0.87 in. hole

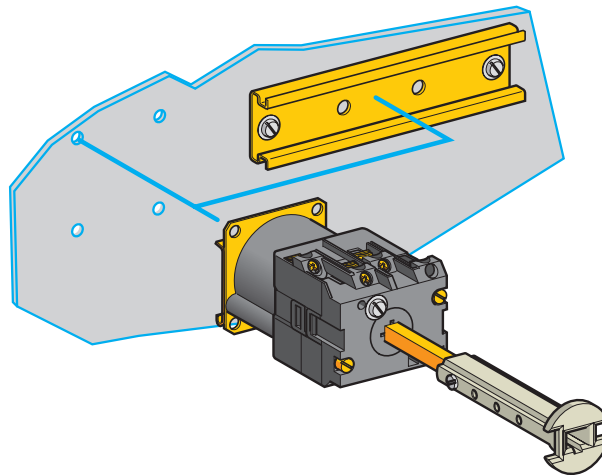


$\varnothing$  22.5 mm cut-out. Head attaches to plate using 1/4 turn bayonet locking and secured on panel by 2 needle screws.

$\varnothing$  22.5 mm cut-out with anti-rotation notch. Head clips into body and secured on panel by fixing nut.

### Rear mounting

#### By means of 4 holes



Switch can be directly mounted on backplate using 4 screws. For DIN rail mounting, an adaptor is available as an accessory. See page 4/41.

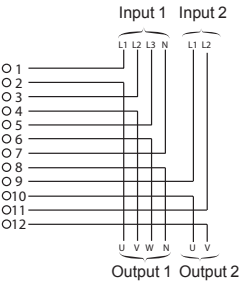


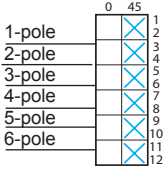

# Cam switches

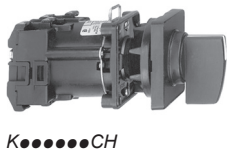
Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

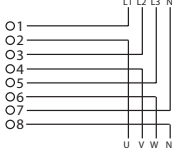


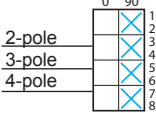

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## Switches with 45° switching angle

Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	Thermal current (Ith)	Reference	Weight
				A		
	 	"Multi-fixing"	1	12	K1A001ALH	0.103/0.227
				20	K2A001ALH	0.103/0.227
			2	12	K1B002ALH	0.113/0.249
				20	K2B002ALH	0.113/0.249
			3	12	K1C003ALH	0.133/0.293
				20	K2C003ALH	0.133/0.293
			4	12	K1D004ALH	0.138/0.304
				20	K2D004ALH	0.138/0.304
			5	12	K1E005ALH	0.158/0.348
				20	K2E005ALH	0.158/0.348
			6	12	K1F006ALH	0.168/0.370
				20	K2F006ALH	0.168/0.370
		By Ø 22 mm/ 0.87 in. hole	1	12	K1A001ACH	0.123/0.271
				20	K2A001ACH	0.123/0.271
			2	12	K1B002ACH	0.133/0.293
				20	K2B002ACH	0.133/0.293
			3	12	K1C003ACH	0.153/0.337
				20	K2C003ACH	0.153/0.337
			4	12	K1D004ACH	0.158/0.348
				20	K2D004ACH	0.158/0.348
			5	12	K1E005ACH	0.178/0.392
				20	K2E005ACH	0.178/0.392
			6	12	K1F006ACH	0.188/0.414
				20	K2F006ACH	0.188/0.414



## Switches with 90° switching angle

	 	"Multi-fixing"	2	12	K1B1002HLH	0.130/0.287			
				20	K2B1002HLH	0.130/0.287			
			3	12	K1C003HLH	0.135/0.298			
				20	K2C003HLH	0.135/0.298			
			4	12	K1D004HLH	0.140/0.309			
				20	K2D004HLH	0.140/0.309			
					By Ø 22 mm/ 0.87 in. hole	2	12	K1B1002HCH	0.150/0.331
							20	K2B1002HCH	0.150/0.331
3	12	K1C003HCH				0.155/0.342			
	20	K2C003HCH				0.155/0.342			
4	12	K1D004HCH	0.160/0.353						
	20	K2D004HCH	0.160/0.353						

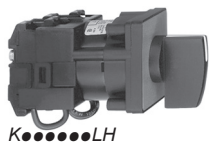
# Cam switches

Complete switches, 12 and 20 A

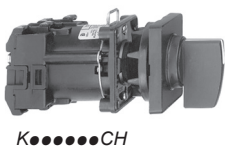
Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## ON-OFF switches with spring return from 30° to "0" position



Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	Thermal current (Ith)	Reference	Weight
				A		kg/lb
		"Multi-fixing"	1	12	K1A002TLH	0.105/0.231
				20	K2A002TLH	0.105/0.231
			By Ø 22 mm/ 0.87 in. hole	12	K1A002TCH	0.125/0.275
				20	K2A002TCH	0.125/0.275



Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	Thermal current (Ith)	Reference	Weight
		"Multi-fixing"	1	12	K1A001TLH	0.105/0.231
				20	K2A001TLH	0.105/0.231
			By Ø 22 mm/ 0.87 in. hole	12	K1A001TCH	0.125/0.275
				20	K2A001TCH	0.125/0.275

# Cam switches

Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## OFF-ON switches with spring return from 120° to 90°



K●●●●●LH

Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	Thermal current (Ith)	Reference	Weight		
				A			kg/lb	
		"Multi-fixing"	1	12	K1B003TLH	0.115/0.253		
				20	K2B003TLH	0.115/0.253		
				By Ø 22 mm/ 0.87 in. hole	1	12	K1B003TCH	0.135/0.298
						20	K2B003TCH	0.135/0.298

3

## OFF-ON switches with spring return from 30° and from 330° to "0" position



K●●●●●CH

		"Multi-fixing"	1	12	K1B004TLH	0.115/0.253		
				20	K2B004TLH	0.115/0.253		
				By Ø 22 mm/ 0.87 in. hole	1	12	K1B004TCH	0.135/0.298
						20	K2B004TCH	0.135/0.298

# Cam switches

Complete switches, 12 and 20 A

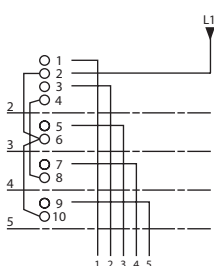
Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## Stepping switches (2 to 5 step), single-pole, with "0" position



K●●●●●LH

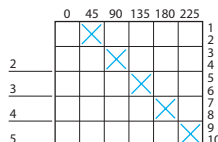


"Multi-fixing"

Thermal current (Ith)	Reference	Weight
<b>2 step + "0"</b>		
12	K1B002QLH	0.115/0.253
20	K2B002QLH	0.115/0.253
<b>By Ø 22 mm/ 0.87 in. hole</b>		
12	K1B002QCH	0.135/0.298
20	K2B002QCH	0.135/0.298



K●●●●●CH



"Multi-fixing"

Thermal current (Ith)	Reference	Weight
<b>3 step + "0"</b>		
12	K1C003QLH	0.135/0.298
20	K2C003QLH	0.135/0.298
<b>By Ø 22 mm/ 0.87 in. hole</b>		
12	K1C003QCH	0.155/0.342
20	K2C003QCH	0.155/0.342



"Multi-fixing"

Thermal current (Ith)	Reference	Weight
<b>4 step + "0"</b>		
12	K1D004QLH	0.140/0.309
20	K2D004QLH	0.140/0.309
<b>By Ø 22 mm/ 0.87 in. hole</b>		
12	K1D004QCH	0.160/0.353
20	K2D004QCH	0.160/0.353



"Multi-fixing"

Thermal current (Ith)	Reference	Weight
<b>5 step + "0"</b>		
12	K1E005QLH	0.160/0.353
20	K2E005QLH	0.160/0.353
<b>By Ø 22 mm/ 0.87 in. hole</b>		
12	K1E005QCH	0.180/0.397
20	K2E005QCH	0.180/0.397


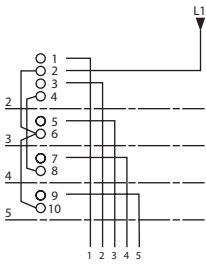


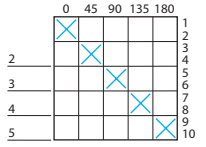







3

# Cam switches

Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

Stepping switches (2 to 5 step), single-pole, without "0" position						
Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight	
			A		kg/lb	
 <p>K●●●●●LH</p>			<b>2 step</b>			
			"Multi-fixing"	12	K1B002NLH	0.115/0.253
				20	K2B002NLH	0.115/0.253
			By Ø 22 mm/ 0.87 in. hole	12	K1B002NCH	0.135/0.298
				20	K2B002NCH	0.135/0.298
			 <p>K●●●●●CH</p>			<b>3 step</b>
"Multi-fixing"	12	K1C003NLH				0.135/0.298
	20	K2C003NLH				0.135/0.298
By Ø 22 mm/ 0.87 in. hole	12	K1C003NCH				0.155/0.342
	20	K2C003NCH				0.155/0.342
 <p>K●●●●●LH</p>						<b>4 step</b>
			"Multi-fixing"	12	K1D004NLH	0.140/0.309
				20	K2D004NLH	0.140/0.309
			By Ø 22 mm/ 0.87 in. hole	12	K1D004NCH	0.160/0.353
				20	K2D004NCH	0.160/0.353
			 <p>K●●●●●CH</p>			<b>5 step</b>
"Multi-fixing"	12	K1E005NLH				0.160/0.353
	20	K2E005NLH				0.160/0.353
By Ø 22 mm/ 0.87 in. hole	12	K1E005NCH				0.180/0.397
	20	K2E005NCH				0.180/0.397

3

# Cam switches

Complete switches, 12 and 20 A

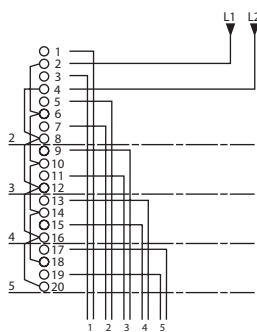
Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

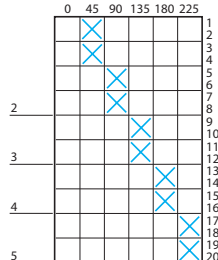
## Stepping switches (2 to 5 step), 2-pole, with "0" position



K●●●●●LH



K●●●●●CH



Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
			A	kg/lb	
			<b>2 step + "0"</b>		
"Multi-fixing"	By Ø 22 mm/ 0.87 in. hole	12	K1D012QLH	0.140/0.309	
		20	K2D012QLH	0.140/0.309	
		12	K1D012QCH	0.160/0.353	
		20	K2D012QCH	0.160/0.353	
			<b>3 step + "0"</b>		
"Multi-fixing"	By Ø 22 mm/ 0.87 in. hole	12	K1F013QLH	0.170/0.374	
		20	K2F013QLH	0.170/0.374	
		12	K1F013QCH	0.190/0.419	
		20	K2F013QCH	0.190/0.419	
			<b>4 step + "0"</b>		
"Multi-fixing"	By Ø 22 mm/ 0.87 in. hole	12	K1H014QLH	0.195/0.430	
		20	K2H014QLH	0.195/0.430	
		12	K1H014QCH	0.215/0.474	
		20	K2H014QCH	0.215/0.474	
			<b>5 step + "0"</b>		
"Multi-fixing"	By Ø 22 mm/ 0.87 in. hole	12	K1K015QLH	0.225/0.496	
		20	K2K015QLH	0.225/0.496	
		12	K1K015QCH	0.245/0.540	
		20	K2K015QCH	0.245/0.540	


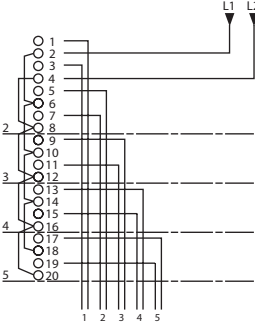



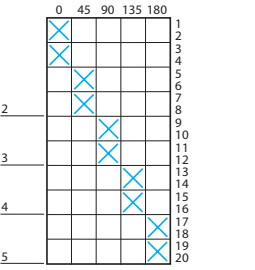
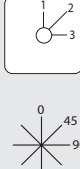
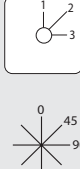
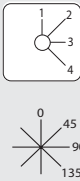





# Cam switches

Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## Stepping switches (2 to 5 step), 2-pole, without "0" position

Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)		Reference	Weight				
			A	kg/lb						
 K...LH    		"Multi-fixing"	<b>2 step</b>							
			12	K1D012NLH	0.140/0.309					
			20	K2D012NLH	0.140/0.309					
			By Ø 22 mm/ 0.87 in. hole		12	K1D012NCH	0.160/0.353			
					20	K2D012NCH	0.160/0.353			
			 K...CH    		"Multi-fixing"	<b>3 step</b>				
						12	K1F013NLH	0.170/0.374		
						20	K2F013NLH	0.170/0.374		
						By Ø 22 mm/ 0.87 in. hole		12	K1F013NCH	0.190/0.419
								20	K2F013NCH	0.190/0.419
  		"Multi-fixing"				<b>4 step</b>				
						12	K1H014NLH	0.195/0.430		
						20	K2H014NLH	0.195/0.430		
						By Ø 22 mm/ 0.87 in. hole		12	K1H014NCH	0.215/0.474
								20	K2H014NCH	0.215/0.474
			  		"Multi-fixing"	<b>5 step</b>				
						12	K1K015NLH	0.225/0.496		
						20	K2K015NLH	0.225/0.496		
By Ø 22 mm/ 0.87 in. hole		12				K1K015NCH	0.245/0.540			
		20				K2K015NCH	0.245/0.540			

3



# Cam switches

Complete switches, 12 and 20 A

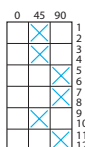
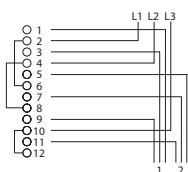
Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## Stepping switches (2 and 3 step), 3-pole, with "0" position



K.....LH



"Multi-fixing"

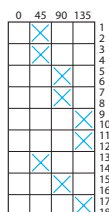
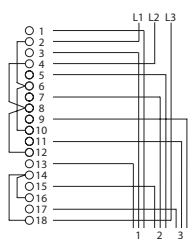
By Ø 22 mm/  
0.87 in. hole

2 step + "0"

Thermal current (I <sub>th</sub> )	Reference	Weight
12	K1F022QLH	0.170/0.374
20	K2F022QLH	0.170/0.374
12	K1F022QCH	0.190/0.419
20	K2F022QCH	0.190/0.419



K.....CH



"Multi-fixing"

By Ø 22 mm/  
0.87 in. hole

3 step + "0"

Thermal current (I <sub>th</sub> )	Reference	Weight
12	K1I023QLH	0.215/0.474
20	K2I023QLH	0.215/0.474
12	K1I023QCH	0.235/0.518
20	K2I023QCH	0.235/0.518


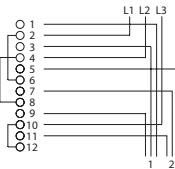
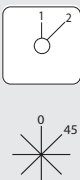
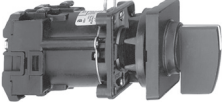
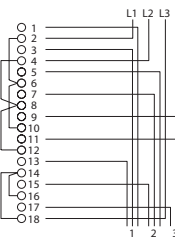

# Cam switches

Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

## Stepping switches (2 and 3 step), 3-pole, without "0" position

Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
			A		
 <p><b>K●●●●●LH</b></p>			<b>"Multi-fixing"</b>		
			<b>2 step</b>		
			12	<b>K1F022NLH</b>	0.170/0.374
			20	<b>K2F022NLH</b>	0.170/0.374
			<b>By Ø 22 mm/ 0.87 in. hole</b>		
			12	<b>K1F022NCH</b>	0.190/0.419
 <p><b>K●●●●●CH</b></p>			<b>"Multi-fixing"</b>		
			<b>3 step</b>		
			12	<b>K1I023NLH</b>	0.215/0.474
			20	<b>K2I023NLH</b>	0.215/0.474
			<b>By Ø 22 mm/ 0.87 in. hole</b>		
			12	<b>K1I023NCH</b>	0.235/0.518

3

# Cam switches

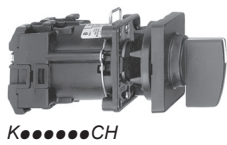
Complete switches, 12 and 20 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking



Reversing switches with spring return from 315° and from 45° to "0" position						
Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	Thermal current (Ith)	Reference	Weight
				A		
		"Multi-fixing"	1	12	K1B006TLH	0.115/0.253
				20	K2B006TLH	0.115/0.253
			By Ø 22 mm/ 0.87 in. hole	12	K1B006TCH	0.135/0.298
				20	K2B006TCH	0.135/0.298



Changeover switches, 1 to 4-pole								
Wiring diagram and switching programme	Marking and switch position	Front mounting method	Number of poles	With "0" position				
				Thermal current (Ith)	Reference	Weight		
		"Multi-fixing"	1	12	K1B001ULH	0.115/0.253		
				20	K2B001ULH	0.115/0.253		
				2	12	K1D002ULH	0.140/0.309	
					20	K2D002ULH	0.140/0.309	
				3	12	K1F003ULH	0.170/0.374	
					20	K2F003ULH	0.170/0.374	
				4	12	K1H004ULH	0.195/0.430	
					20	K2H004ULH	0.195/0.430	
			By Ø 22 mm/ 0.87 in. hole	1	12	K1B001UCH	0.135/0.298	
					20	K2B001UCH	0.135/0.298	
					2	12	K1D002UCH	0.160/0.353
						20	K2D002UCH	0.160/0.353
					3	12	K1F003UCH	0.190/0.419
						20	K2F003UCH	0.190/0.419
					4	12	K1H004UCH	0.215/0.474
						20	K2H004UCH	0.215/0.474
		"Multi-fixing"	1	Without "0" position				
				12	K1B011ULH	0.115/0.253		
				20	K2B011ULH	0.115/0.253		
				2	12	K1D012ULH	0.140/0.309	
					20	K2D012ULH	0.140/0.309	
				3	12	K1F013ULH	0.170/0.374	
					20	K2F013ULH	0.170/0.374	
				4	12	K1H014ULH	0.195/0.430	
			20		K2H014ULH	0.195/0.430		
			By Ø 22 mm/ 0.87 in. hole	1	12	K1B011UCH	0.135/0.298	
					20	K2B011UCH	0.135/0.298	
					2	12	K1D012UCH	0.160/0.353
						20	K2D012UCH	0.160/0.353
					3	12	K1F013UCH	0.190/0.419
						20	K2F013UCH	0.190/0.419
					4	12	K1H014UCH	0.215/0.474
20	K2H014UCH	0.215/0.474						



# Cam switches

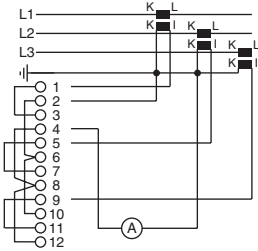
Complete switches, 12 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

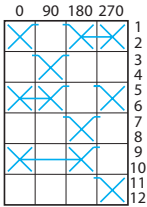
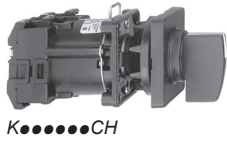
Ammeter switches					
Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
			A		kg/lb

**For 3 circuits**



With "0" position			
"Multi-fixing"	12	K1F003MLH	0.170/0.374
By Ø 22 mm/ 0.87 in. hole	12	K1F003MCH	0.190/0.479

3



Without "0" position			
"Multi-fixing"	12	K1F013MLH	0.170/0.374
By Ø 22 mm/ 0.87 in. hole	12	K1F013MCH	0.190/0.479

# Cam switches

Complete switches, 12 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

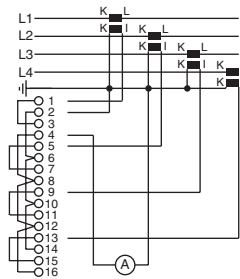
## Ammeter switches (continued)

Wiring diagram and switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
			A		kg/lb

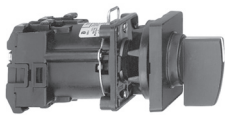
For 4 circuits



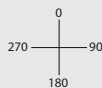
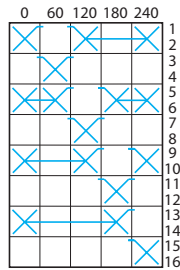
K.....LH



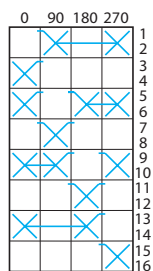
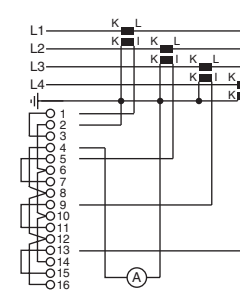
"Multi-fixing"	With "0" position		
		12	K1H004MLH
By Ø 22 mm/ 0.87 in. hole	12	K1H004MCH	0.215/0.474



K.....CH



"Multi-fixing"	Without "0" position		
		12	K1H014MLH
By Ø 22 mm/ 0.87 in. hole	12	K1H014MCH	0.215/0.474

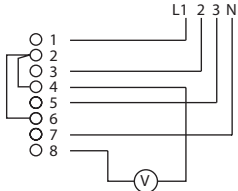
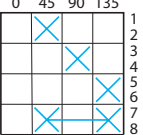
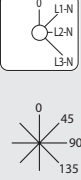

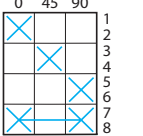
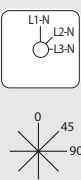
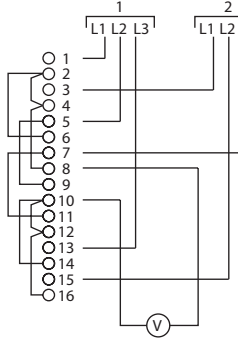
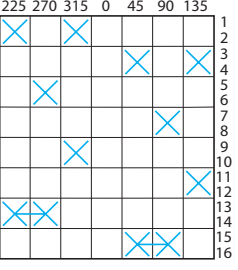
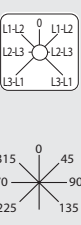

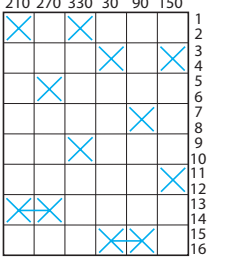
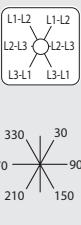


# Cam switches

Complete switches, 12 A

Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

Voltmeter switches						
Wiring diagram	Switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
				A		kg/lb
<b>For measurements between 3 phases and neutral</b>						
 <p>K●●●●●LH</p>			<b>With "0" position</b>			
			"Multi-fixing"	12	K1D023MLH	0.140/0.309
			<b>By Ø 22 mm/ 0.87 in. hole</b>			
			12	K1D023MCH	0.160/0.353	
<b>For measurements between 3 phases of 2 supplies</b>						
 <p>K●●●●●CH</p>			<b>Without "0" position</b>			
			"Multi-fixing"	12	K1D033MLH	0.140/0.309
			<b>By Ø 22 mm/ 0.87 in. hole</b>			
			12	K1D033MCH	0.160/0.353	
			<b>With "0" position</b>			
			"Multi-fixing"	12	K1H026MLH	0.205/0.452
			<b>By Ø 22 mm/ 0.87 in. hole</b>			
			12	K1H026MCH	0.215/0.474	
			<b>Without "0" position</b>			
			"Multi-fixing"	12	K1H036MLH	0.205/0.452
			<b>By Ø 22 mm/ 0.87 in. hole</b>			
			12	K1H036MCH	0.215/0.474	

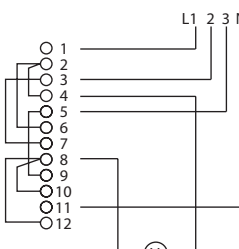
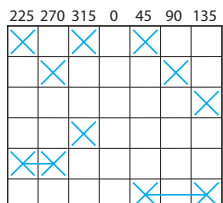
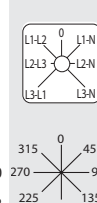

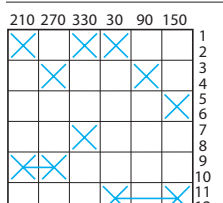
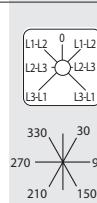
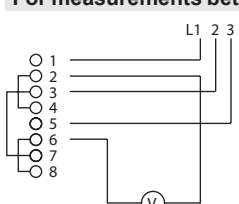
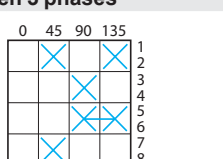
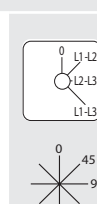

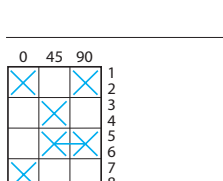
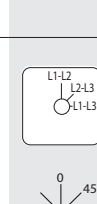
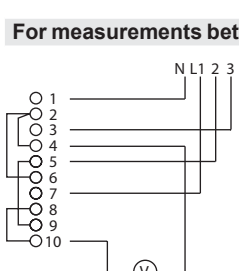
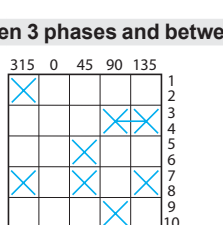
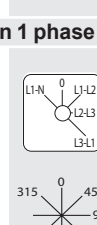

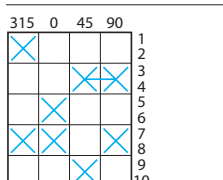
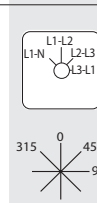
3

# Cam switches

Complete switches, 12 A

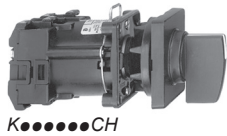
Front mounting, "multi-fixing" or by Ø 22 mm hole

With 45 x 45 mm front plate, 35 mm handle and metallic legend with black marking

Voltmeter switches (continued)						
Wiring diagram	Switching programme	Marking and switch position	Front mounting method	Thermal current (Ith)	Reference	Weight
				A		kg/lb
<b>For measurements between 3 phases and between each of the 3 phases and neutral</b>						
			<b>"Multi-fixing"</b>	12	<b>K1F027MLH</b>	0.170/0.374
				12	<b>K1F027MCH</b>	0.190/0.419
			<b>"Multi-fixing"</b>	12	<b>K1F037MLH</b>	0.170/0.374
				12	<b>K1F037MCH</b>	0.190/0.419
<b>For measurements between 3 phases</b>						
			<b>"Multi-fixing"</b>	12	<b>K1D024MLH</b>	0.140/0.309
				12	<b>K1D024MCH</b>	0.160/0.353
			<b>"Multi-fixing"</b>	12	<b>K1D034MLH</b>	0.140/0.309
				12	<b>K1D034MCH</b>	0.160/0.353
<b>For measurements between 3 phases and between 1 phase and neutral</b>						
			<b>"Multi-fixing"</b>	12	<b>K1E025MLH</b>	0.160/0.353
				12	<b>K1E025MCH</b>	0.180/0.397
			<b>"Multi-fixing"</b>	12	<b>K1E035MLH</b>	0.160/0.353
				12	<b>K1E035MCH</b>	0.180/0.397



K●●●●●LH



K●●●●●CH





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## Adaptable sub-assemblies, 12 and 20 A

### ■ Bodies (contact blocks + fixing plate)

- Switches ..... 4/2
- Changeover switches ..... 4/6
- Reversing switches..... 4/8
- Encoded output switches ..... 4/9
- Paralleling switches ..... 4/12
- Stepping switches..... 4/14
- Ammeter switches ..... 4/24
- Voltmeter switches..... 4/25
- Multi-circuit switches..... 4/28
- Reversing switches..... 4/29
- Star-delta switches and reversing star-delta switches ..... 4/30
- Pole change switches and reversing pole change switches..... 4/31

### ■ Operating heads

- For “multi-fixing” or Ø 22 mm hole, front mounting bodies ..... 4/34
- For 4 hole, rear mounting bodies ..... 4/35

### ■ Legends

- For “multi-fixing” heads..... 4/36
- For Ø 22 mm hole mounting heads with plastic bezel ..... 4/37
- For Ø 22 mm hole mounting heads with chromium plated metal bezel..... 4/38
- Legend holders for heads ..... 4/39
- Separate components and accessories ..... 4/40



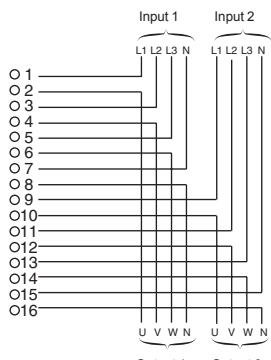

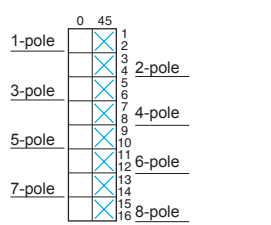





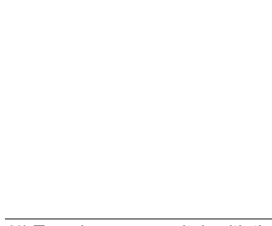

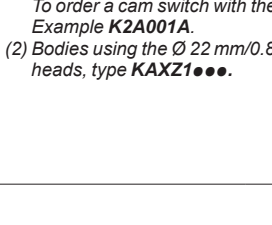




# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

#### Switches with 45° switching angle

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb			
		Front	Multi-fixing	<b>K●A001AL</b>	0.091/0.201		
			By Ø 22 mm/0.87 in. hole	<b>K●A001A</b>	0.075/0.165		
		Rear		<b>K●A001AX (2)</b>	0.153/0.337		
				<b>K●A501A</b>	0.115/0.253		
				Front	Multi-fixing	<b>K●B002AL</b>	0.101/0.223
					By Ø 22 mm/0.87 in. hole	<b>K●B002A</b>	0.085/0.187
Rear				<b>K●B002AX (2)</b>	0.163/0.359		
				<b>K●B502A</b>	0.125/0.275		
				Front	Multi-fixing	<b>K●C003AL</b>	0.121/0.267
					By Ø 22 mm/0.87 in. hole	<b>K●C003A</b>	0.105/0.231
		Rear		<b>K●C003AX (2)</b>	0.183/0.403		
				<b>K●C503A</b>	0.140/0.309		
				Front	Multi-fixing	<b>K●D004AL</b>	0.126/0.278
					By Ø 22 mm/0.87 in. hole	<b>K●D004A</b>	0.110/0.242
Rear				<b>K●D004AX (2)</b>	0.188/0.414		
				<b>K●D504A</b>	0.150/0.331		
				Front	Multi-fixing	<b>K●E005AL</b>	0.146/0.322
					By Ø 22 mm/0.87 in. hole	<b>K●E005A</b>	0.130/0.287
		Rear		<b>K●E005AX (2)</b>	0.208/0.458		
				<b>K●E505A</b>	0.165/0.364		
				Front	Multi-fixing	<b>K●F006AL</b>	0.156/0.344
					By Ø 22 mm/0.87 in. hole	<b>K●F006A</b>	0.140/0.309
Rear				<b>K●F006AX (2)</b>	0.218/0.481		
				<b>K●F506A</b>	0.175/0.386		
				Front	Multi-fixing	<b>K●G007AL</b>	0.176/0.388
					By Ø 22 mm/0.87 in. hole	<b>K●G007A</b>	0.160/0.353
		Rear		<b>K●G507A</b>	0.190/0.419		
				Front	Multi-fixing	<b>K●H008AL</b>	0.181/0.399
					By Ø 22 mm/0.87 in. hole	<b>K●H008A</b>	0.165/0.364
Rear				<b>K●H508A</b>	0.195/0.430		

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
Example **K1A001A**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
Example **K2A001A**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

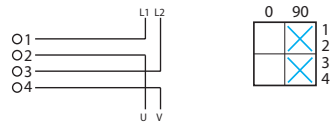
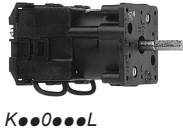
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

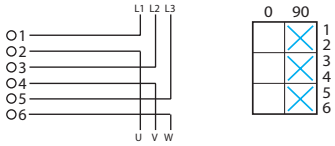
Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Switches with 90° switching angle

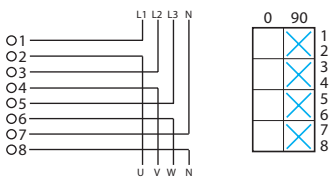


Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
2-pole	0 90		Front Multi-fixing	<b>K0B1002HL</b>	0.121/0.267
			By Ø 22 mm/0.87 in. hole	<b>K0B1002H</b>	0.105/0.231
				<b>K0B1002HX (2)</b>	0.183/0.403



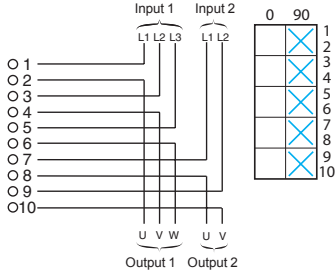
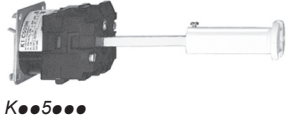
3-pole	0 90		Front Multi-fixing	<b>K0C003HL</b>	0.121/0.267
			By Ø 22 mm/0.87 in. hole	<b>K0C003H</b>	0.105/0.231
				<b>K0C003HX (2)</b>	0.183/0.403
Rear		<b>K0C503H</b>	0.140/0.309		

3-pole with neutral wire terminal and Earth terminal					
3-pole with neutral wire terminal and Earth terminal	0 90		Front Multi-fixing	<b>K0C023HL</b>	0.121/0.267
			By Ø 22 mm/0.87 in. hole	<b>K0C023H</b>	0.105/0.231
				<b>K0C023HX (2)</b>	0.183/0.403
			Rear	<b>K0C523H</b>	0.140/0.309



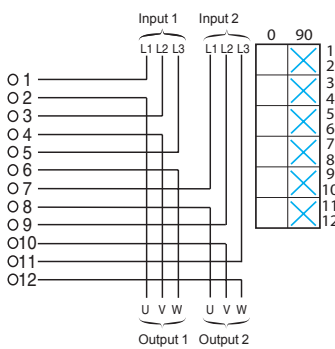
4-pole	0 90		Front Multi-fixing	<b>K0D004HL</b>	0.126/0.278
			By Ø 22 mm/0.87 in. hole	<b>K0D004H</b>	0.110/0.242
				<b>K0D004HX (2)</b>	0.188/0.414
Rear		<b>K0D504H</b>	0.150/0.331		

4-pole with neutral wire terminal and Earth terminal					
4-pole with neutral wire terminal and Earth terminal	0 90		Front Multi-fixing	<b>K0D024HL</b>	0.126/0.278
			By Ø 22 mm/0.87 in. hole	<b>K0D024H</b>	0.110/0.242
				<b>K0D024HX (2)</b>	0.188/0.414
			Rear	<b>K0D524H</b>	0.150/0.331



5-pole	0 90		Front Multi-fixing	<b>K0E005HL</b>	0.146/0.322
			By Ø 22 mm/0.87 in. hole	<b>K0E005H</b>	0.130/0.287
				<b>K0E005HX (2)</b>	0.208/0.458
Rear		<b>K0E505H</b>	0.165/0.364		

5-pole with neutral wire terminal and Earth terminal					
5-pole with neutral wire terminal and Earth terminal	0 90		Front Multi-fixing	<b>K0E025HL</b>	0.146/0.322
			By Ø 22 mm/0.87 in. hole	<b>K0E025H</b>	0.130/0.287
				<b>K0E525H</b>	0.165/0.364



6-pole	0 90		Front Multi-fixing	<b>K0F006HL</b>	0.156/0.344
			By Ø 22 mm/0.87 in. hole	<b>K0F006H</b>	0.140/0.309
				<b>K0F006HX (2)</b>	0.218/0.481
Rear		<b>K0F506H</b>	0.175/0.386		

6-pole with neutral wire terminal and Earth terminal					
6-pole with neutral wire terminal and Earth terminal	0 90		Front Multi-fixing	<b>K0F026HL</b>	0.156/0.344
			By Ø 22 mm/0.87 in. hole	<b>K0F026H</b>	0.140/0.309
			Rear	<b>K0F526H</b>	0.175/0.386

(1) To order a cam switch with thermal current Ith = 12 A, replace the ● in the reference by 1.

Example **K1C003H**.

To order a cam switch with thermal current Ith = 20 A, replace the ● in the reference by 2.

Example **K2C003H**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1000**.

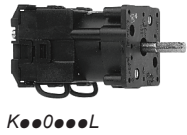
# Cam switches

Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

## OFF-ON switches with 45° switching angle



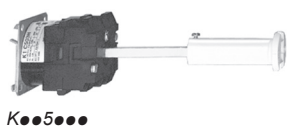
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●A001AL</b>	0.091/0.201
			By Ø 22 mm/0.87 in. hole	<b>K●A001A</b>	0.075/0.165
			Rear	<b>K●A001AX (2)</b>	0.153/0.337
				<b>K●A501A</b>	0.115/0.253

## OFF-ON switches with spring return from 30° to "0" position



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●A001TL</b>	0.091/0.201
			By Ø 22 mm/0.87 in. hole	<b>K●A001T</b>	0.075/0.165
			Rear	<b>K●A001TX (2)</b>	0.153/0.337
				<b>K●A501T</b>	0.115/0.253

## ON-OFF switches with spring return from 30° to "0" position



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●A002TL</b>	0.091/0.201
			By Ø 22 mm/0.87 in. hole	<b>K●A002T</b>	0.075/0.165
			Rear	<b>K●A002TX (2)</b>	0.153/0.337
				<b>K●A502T</b>	0.115/0.253

## OFF-ON switches with spring return from 120° to 90°



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●B003TL</b>	0.101/0.223
			By Ø 22 mm/0.87 in. hole	<b>K●B003T</b>	0.085/0.187
			Rear	<b>K●B503T</b>	0.125/0.275

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.

Example **K1A001A**.

To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.

Example **K2A001A**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

# Cam switches

Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

## OFF-ON switches with spring return from 30° and from 330° to "0" position



K●●0●●●L

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
		Front	Multi-fixing	0.101/0.223	
			By Ø 22 mm/0.87 in. hole	K●B004TL	0.085/0.187
		Rear		K●B504T	0.115/0.253

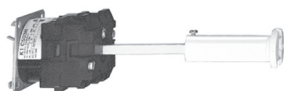
## OFF-ON switches with momentary-contact function



K●●0●●●

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
		Front	Multi-fixing	0.101/0.223	
			By Ø 22 mm/0.87 in. hole	K●B001DL	0.085/0.187
		Rear		K●B001DX (2)	0.163/0.359
			K●B501D	0.125/0.275	

## OFF-ON changeover switches with spring return from 240° to 270° and from 120° to 90°



K●●5●●●



K●●0●●●X

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
		Front	Multi-fixing	0.126/0.278	
			By Ø 22 mm/0.87 in. hole	K●D005TL	0.110/0.242
		Rear		K●D505T	0.150/0.331

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.

Example K1B004T.

To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.

Example K2B004T.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1●●●.

# Cam switches

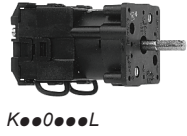
## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

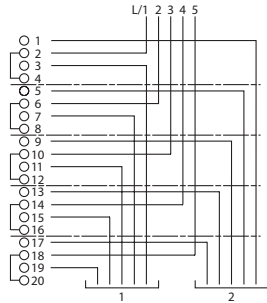
To combine with operating heads:  
see page 4/34

### Changeover switches with "0" position

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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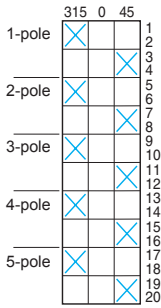
K●●0●●●L



1-pole					
Front	Multi-fixing By Ø 22 mm/0.87 in. hole		K●B001UL	0.101/0.223	
			K●B001U	0.085/0.187	
Rear			K●B001UX (2)	0.163/0.359	
			K●B501U	0.125/0.275	



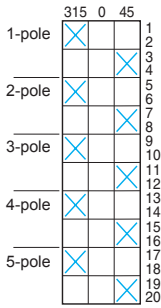
K●●0●●●



2-pole					
Front	Multi-fixing By Ø 22 mm/0.87 in. hole		K●D002UL	0.126/0.278	
			K●D002U	0.110/0.242	
Rear			K●D002UX (2)	0.188/0.414	
			K●D502U	0.150/0.331	



K●●5●●●



3-pole					
Front	Multi-fixing By Ø 22 mm/0.87 in. hole		K●F003UL	0.156/0.344	
			K●F003U	0.140/0.309	
Rear			K●F003UX (2)	0.218/0.481	
			K●F503U	0.175/0.386	



K●●0●●●X



4-pole					
Front	Multi-fixing By Ø 22 mm/0.87 in. hole		K●H004UL	0.181/0.399	
			K●H004U	0.165/0.364	
Rear			K●H004UX (2)	0.243/0.536	
			K●H504U	0.195/0.430	

5-pole					
Front	Multi-fixing By Ø 22 mm/0.87 in. hole		K●K005UL	0.211/0.465	
			K●K005U	0.195/0.430	
Rear			K●K005UX (2)	0.273/0.602	
			K●K505U	0.210/0.463	

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.  
Example K1B001U.  
To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.  
Example K2B001U.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1●●●.

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Changeover switches without "0" position

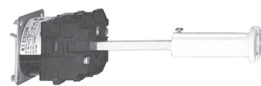
Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
--	-----------------	-----------------	-------------------------------	--------------



K●●0●●●L



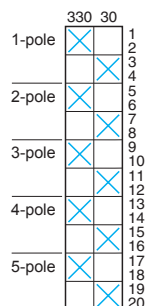
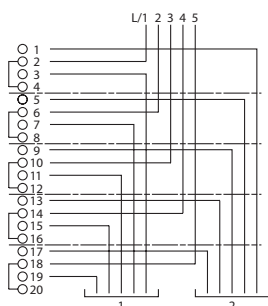
K●●0●●●



K●●5●●●



K●●0●●●X



<b>1-pole</b>				
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	K●B011UL K●B011U	0.101/0.223 0.085/0.187
	Rear		K●B011UX (2) K●B511U	0.163/0.359 0.125/0.275
<b>2-pole</b>				
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	K●D012UL K●D012U	0.126/0.278 0.110/0.242
	Rear		K●D012UX (2) K●D512U	0.188/0.414 0.150/0.331
<b>3-pole</b>				
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	K●F013UL K●F013U	0.156/0.344 0.140/0.309
	Rear		K●F013UX (2) K●F513U	0.218/0.481 0.175/0.386
<b>4-pole</b>				
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	K●H014UL K●H014U	0.181/0.399 0.165/0.364
	Rear		K●H014UX (2) K●H514U	0.243/0.536 0.195/0.430
<b>5-pole</b>				
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	K●K015UL K●K015U	0.211/0.465 0.195/0.430
	Rear		K●K015UX (2) K●K515U	0.273/0.602 0.220/0.485

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.

Example **K1B011U**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.

Example **K2B011U**.


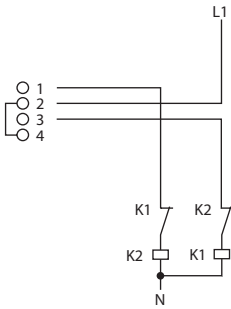
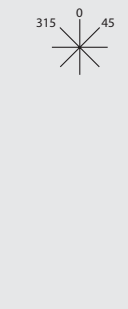

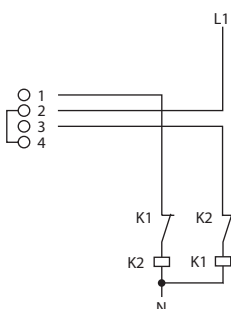
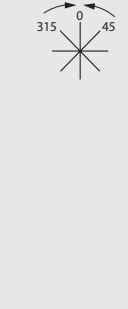

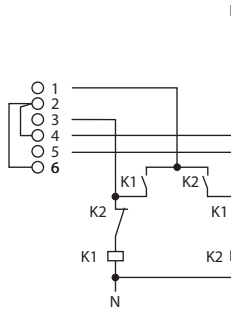
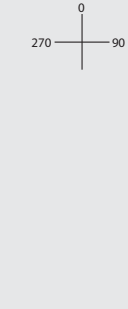

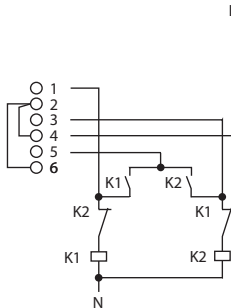
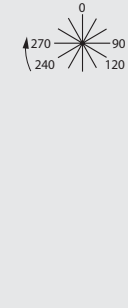
(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

Reversing switches with "0" position					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 <b>K●●0●●●L</b>			Front	Multi-fixing	<b>K●B001UL</b> 0.101/0.223
				By Ø 22 mm/ 0.87 in. hole	<b>K●B001U</b> 0.085/0.187
					<b>K●B001UX (2)</b> 0.163/0.359
			Rear		<b>K●B501U</b> 0.125/0.275
Reversing switches with spring return from 315° and from 45° to "0" position					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 <b>K●●0●●●</b>			Front	Multi-fixing	<b>K●B006TL</b> 0.101/0.223
				By Ø 22 mm/ 0.87 in. hole	<b>K●B006T</b> 0.085/0.187
					<b>K●B006TX (2)</b> 0.163/0.359
			Rear		<b>K●B506T</b> 0.125/0.275
Reversing switches with momentary-contact function					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 <b>K●●5●●●</b>			Front	Multi-fixing	<b>K●C002DL</b> 0.121/0.267
				By Ø 22 mm/ 0.87 in. hole	<b>K●C002D</b> 0.105/0.231
					<b>K●C002DX (2)</b> 0.183/0.403
			Rear		<b>K●C502D</b> 0.140/0.309
Reversing switches with spring return from 240° to 270° and from 120° to 90° position					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 <b>K●●0●●●X</b>			Front	Multi-fixing	<b>K●C007TL</b> 0.121/0.267
				By Ø 22 mm/ 0.87 in. hole	<b>K●C007T</b> 0.105/0.231
					<b>K●C507T</b> 0.140/0.309
			Rear		

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
Example **K1B001U**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
Example **K2B001U**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.



# Cam switches

## Adaptable sub-assemblies, 12 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### BCD encoded output switches with "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb	
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1A001BL</b> <b>K1A001B</b> <b>K1A001BX (2)</b>	0.101/0.223 0.085/0.187 0.163/0.359
			Rear		<b>K1A501B</b>	0.125/0.275
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1B002BL</b> <b>K1B002B</b> <b>K1B002BX (2)</b>	0.101/0.223 0.085/0.187 0.163/0.359
			Rear		<b>K1B502B</b>	0.125/0.275
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1B003BL</b> <b>K1B003B</b> <b>K1B003BX (2)</b>	0.101/0.223 0.085/0.187 0.163/0.359
			Rear		<b>K1B503B</b>	0.125/0.275
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1C004BL</b> <b>K1C004B</b> <b>K1C004BX (2)</b>	0.121/0.267 0.105/0.231 0.183/0.403
			Rear		<b>K1C504B</b>	0.140/0.309
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1C005BL</b> <b>K1C005B</b> <b>K1C005BX (2)</b>	0.121/0.267 0.105/0.231 0.183/0.403
			Rear		<b>K1C505B</b>	0.140/0.309
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1C006BL</b> <b>K1C006B</b> <b>K1C006BX (2)</b>	0.121/0.267 0.105/0.231 0.183/0.403
			Rear		<b>K1C506B</b>	0.140/0.309
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1C007BL</b> <b>K1C007B</b> <b>K1C007BX (2)</b>	0.121/0.267 0.105/0.231 0.183/0.403
			Rear		<b>K1C507B</b>	0.140/0.309
			Front	Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K1D008BL</b> <b>K1D008B</b> <b>K1D008BX (2)</b>	0.126/0.278 0.110/0.242 0.188/0.414
			Rear		<b>K1D508B</b>	0.150/0.331

(1) Ith = 12 A.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1●●●.

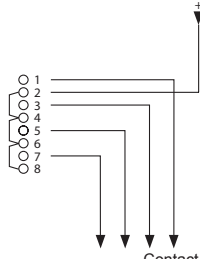
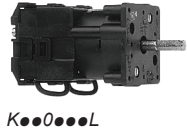
# Cam switches

## Adaptable sub-assemblies, 12 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### BCD encoded output switches with "0" position (continued)



87	65	43	21	0
8	4	2	1	
0				0
1			X	30
2			X	60
3			X	90
4	X			120
5	X			150
6	X			180
7	X			210
8	X			240
9			X	270
10			X	300
11	X			330

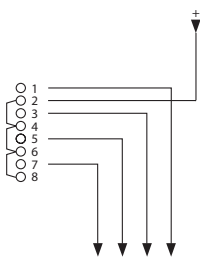
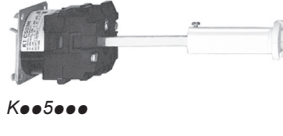


9 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D009BL</b>	0.126/0.278
	Rear		<b>K1D009B</b> <b>K1D009BX (2)</b>	0.110/0.242 0.188/0.414
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D010BL</b>	0.126/0.278
	Rear		<b>K1D010B</b> <b>K1D510B</b>	0.110/0.242 0.150/0.331

10 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D011BL</b>	0.126/0.278
	Rear		<b>K1D011B</b> <b>K1D511B</b>	0.110/0.242 0.150/0.331

11 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D011BL</b>	0.126/0.278
	Rear		<b>K1D011B</b> <b>K1D511B</b>	0.110/0.242 0.150/0.331

### BCD encoded output switches without "0" position



87	65	43	21	0
8	4	2	1	
1			X	0
2			X	45
3			X	90
4	X			135
5	X			180
6	X			225



1 and 2 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1B022BL</b>	0.101/0.223
	Rear		<b>K1B022B</b> <b>K1B022BX (2)</b>	0.085/0.187 0.163/0.359
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1B023BL</b>	0.101/0.223
	Rear		<b>K1B023B</b> <b>K1B023BX (2)</b>	0.085/0.187 0.163/0.359

3 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1B023BL</b>	0.101/0.223
	Rear		<b>K1B023B</b> <b>K1B023BX (2)</b>	0.085/0.187 0.163/0.359

4 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C024BL</b>	0.121/0.267
	Rear		<b>K1C024B</b> <b>K1C024BX (2)</b>	0.105/0.231 0.183/0.403
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C024BL</b>	0.121/0.267
	Rear		<b>K1C024B</b> <b>K1C024BX (2)</b>	0.105/0.231 0.183/0.403

5 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C025BL</b>	0.121/0.267
	Rear		<b>K1C025B</b> <b>K1C025BX (2)</b>	0.105/0.231 0.183/0.403
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C025BL</b>	0.121/0.267
	Rear		<b>K1C025B</b> <b>K1C025BX (2)</b>	0.105/0.231 0.183/0.403

6 decimal	Switch position	Mounting method	Reference (1)	Weight kg/lb
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C026BL</b>	0.121/0.267
	Rear		<b>K1C026B</b> <b>K1C026BX (2)</b>	0.105/0.231 0.183/0.403
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C026BL</b>	0.121/0.267
	Rear		<b>K1C026B</b> <b>K1C026BX (2)</b>	0.105/0.231 0.183/0.403

(1) lth = 12 A.  
(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1....


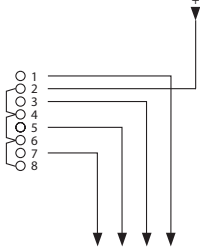

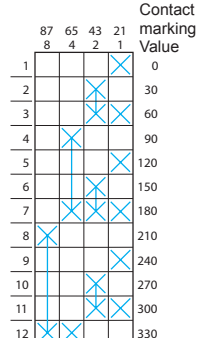



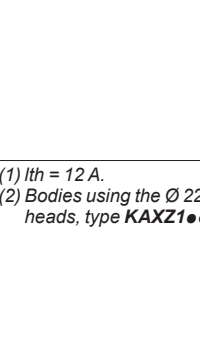


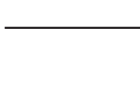

# Cam switches

## Adaptable sub-assemblies, 12 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### BCD encoded output switches without "0" position (continued)

Wiring diagram and switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb
 <p>K...0...L</p> 	<b>7 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1C027BL</b>	0.121/0.267
	Rear		<b>K1C027B</b> <b>K1C027BX (2)</b>	0.105/0.231 0.183/0.403
 <p>K...0...</p> 	<b>8 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D028BL</b>	0.126/0.278
	Rear		<b>K1D028B</b> <b>K1D028BX (2)</b>	0.110/0.242 0.188/0.414
 <p>K...0...</p> 	<b>9 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D029BL</b>	0.126/0.278
	Rear		<b>K1D029B</b> <b>K1D029BX (2)</b>	0.110/0.242 0.188/0.414
 <p>K...5...</p> 	<b>10 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D030BL</b>	0.126/0.278
	Rear		<b>K1D030B</b> <b>K1D030BX (2)</b>	0.110/0.242 0.188/0.414
 <p>K...5...</p> 	<b>11 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D031BL</b>	0.126/0.278
	Rear		<b>K1D031B</b> <b>K1D031BX (2)</b>	0.110/0.242 0.188/0.414
 <p>K...0...X</p> 	<b>12 decimal</b>			
	Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K1D032BL</b>	0.126/0.278
	Rear		<b>K1D032B</b> <b>K1D032BX (2)</b>	0.110/0.242 0.188/0.414

(1) I<sub>th</sub> = 12 A.

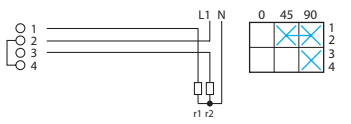


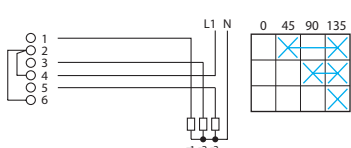
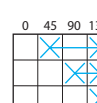

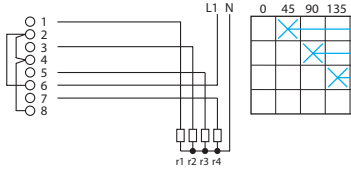
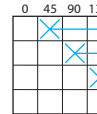

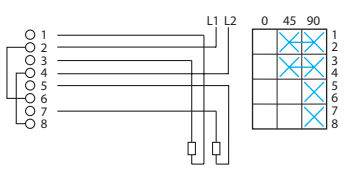
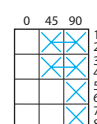

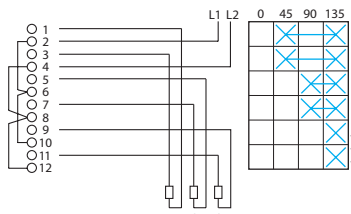
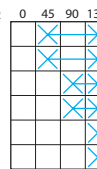

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1....

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

Paralleling switches with "0" position					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
<b>1-pole for 2 loads</b>					
			Front	Multi-fixing	<b>K●B002GL</b> 0.101/0.223
				By Ø 22 mm/ 0.87 in. hole	<b>K●B002G</b> 0.085/0.187
			Rear		<b>K●B002GX (2)</b> 0.163/0.359
					<b>K●B502G</b> 0.125/0.275
<b>1-pole for 3 loads</b>					
			Front	Multi-fixing	<b>K●C003GL</b> 0.121/0.267
				By Ø 22 mm/ 0.87 in. hole	<b>K●C003G</b> 0.105/0.231
			Rear		<b>K●C003GX (2)</b> 0.183/0.403
					<b>K●C503G</b> 0.140/0.309
<b>1-pole for 4 loads</b>					
			Front	Multi-fixing	<b>K●D004GL</b> 0.126/0.278
				By Ø 22 mm/ 0.87 in. hole	<b>K●D004G</b> 0.110/0.242
			Rear		<b>K●D004GX (2)</b> 0.188/0.414
					<b>K●D504G</b> 0.150/0.331
<b>2-pole for 2 loads</b>					
			Front	Multi-fixing	<b>K●D012GL</b> 0.126/0.278
				By Ø 22 mm/ 0.87 in. hole	<b>K●D012G</b> 0.110/0.242
			Rear		<b>K●D012GX (2)</b> 0.188/0.414
					<b>K●D512G</b> 0.150/0.331
<b>2-pole for 3 loads</b>					
			Front	Multi-fixing	<b>K●F013GL</b> 0.156/0.344
				By Ø 22 mm/ 0.87 in. hole	<b>K●F013G</b> 0.140/0.309
			Rear		<b>K●F013GX (2)</b> 0.218/0.481
					<b>K●F513G</b> 0.175/0.386

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.

Example **K1B002G**.

To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.

Example **K2B002G**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

To combine with operating heads:  
see page 4/34

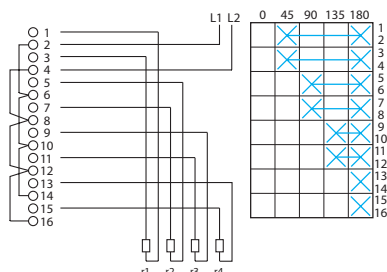
### Paralleling switches with "0" position (continued)

Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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#### 2-pole for 4 loads



K●●0●●●L

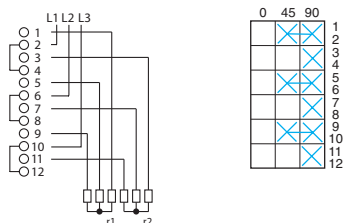


Front	Multi-fixing	<b>K●H014GL</b>	0.181/0.399
	By Ø 22 mm/ 0.87 in. hole	<b>K●H014G</b>	0.165/0.364
Rear		<b>K●H014GX (2)</b>	0.243/0.536
		<b>K●H514G</b>	0.195/0.430

#### 3-pole for 2 loads

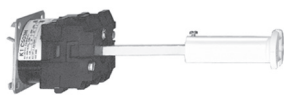


K●●0●●●

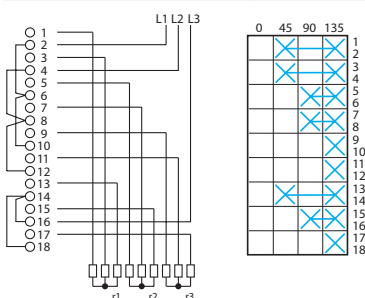


Front	Multi-fixing	<b>K●F022GL</b>	0.156/0.344
	By Ø 22 mm/ 0.87 in. hole	<b>K●F022G</b>	0.140/0.309
Rear		<b>K●F022GX (2)</b>	0.218/0.481
		<b>K●F522G</b>	0.175/0.386

#### 3-pole for 3 loads



K●●5●●●

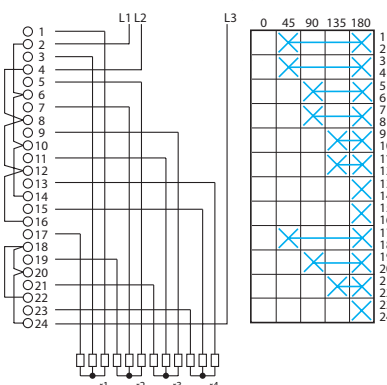


Front	Multi-fixing	<b>K●I023GL</b>	0.201/0.443
	By Ø 22 mm/ 0.87 in. hole	<b>K●I023G</b>	0.185/0.408
Rear		<b>K●I023GX (2)</b>	0.263/0.580
		<b>K●I523G</b>	0.215/0.474

#### 3-pole for 4 loads



K●●0●●●X



Front	Multi-fixing	<b>K●M024GL</b>	0.241/0.531
	By Ø 22 mm/ 0.87 in. hole	<b>K●M024G</b>	0.225/0.496
Rear		<b>K●M024GX (2)</b>	0.303/0.668
		<b>K●M524G</b>	0.245/0.540

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.

Example **K1H014G**.

To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.

Example **K2H014G**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.


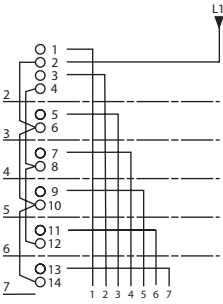

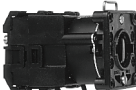
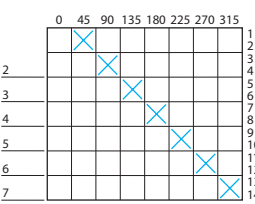

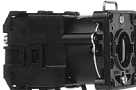
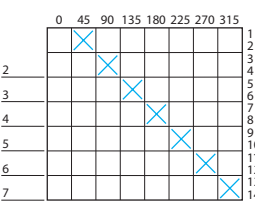


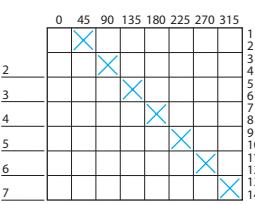


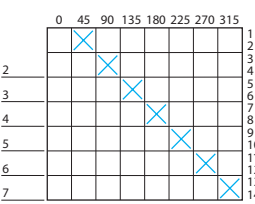


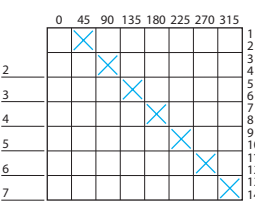

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

#### Stepping switches (2 to 11 step), single-pole, with "0" position

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 	<b>2 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●B002QL</b>	0.101/0.223
		Rear	<b>K●B002QX (2)</b> <b>K●B502Q</b>	0.085/0.187 0.163/0.359
 	<b>3 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●C003QL</b>	0.121/0.267
		Rear	<b>K●C003QX (2)</b> <b>K●C503Q</b>	0.105/0.231 0.183/0.403
 	<b>4 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●D004QL</b>	0.126/0.278
		Rear	<b>K●D004QX (2)</b> <b>K●D504Q</b>	0.110/0.242 0.188/0.414
 	<b>5 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●E005QL</b>	0.146/0.322
		Rear	<b>K●E005QX (2)</b> <b>K●E505Q</b>	0.130/0.287 0.208/0.458
 	<b>6 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●F006QL</b>	0.156/0.344
		Rear	<b>K●F006QX (2)</b> <b>K●F506Q</b>	0.140/0.309 0.218/0.481
 	<b>7 step + "0"</b> 	Front Multi-fixing By $\varnothing$ 22 mm/0.87 in. hole	<b>K●G007QL</b>	0.176/0.388
		Rear	<b>K●G007QX (2)</b> <b>K●G507Q</b>	0.160/0.353 0.238/0.525

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.  
Example **K1B002Q**.  
To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.  
Example **K2B002Q**.

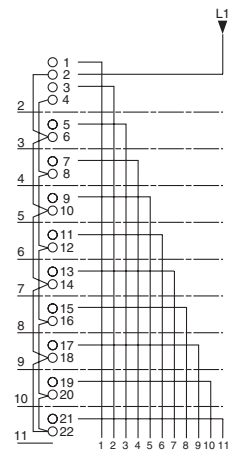
(2) Bodies using the  $\varnothing$  22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

To combine with operating heads:  
see page 4/34

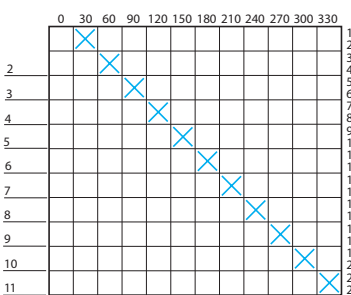
### Stepping switches (2 to 11 step), single-pole, with "0" position (continued)



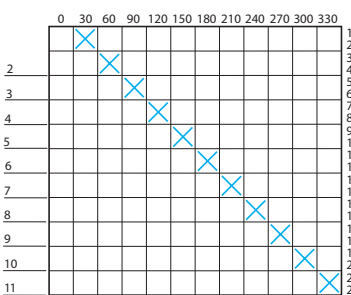
K●●0●●●L



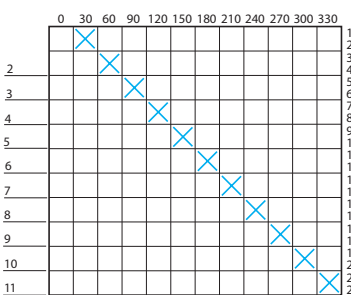
K●●0●●●



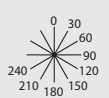
K●●5●●●



K●●0●●●X

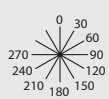


#### 8 step + "0"



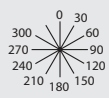
Mounting method	Reference to be completed (1)	Weight kg/lb
Front	Multi-fixing By $\varnothing$ 22 mm/ 0.87 in. hole	K●H008QL 0.181/0.399 K●H008Q 0.165/0.364
Rear		K●H008QX (2) 0.243/0.536 K●H508Q 0.195/0.430

#### 9 step + "0"



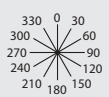
Mounting method	Reference to be completed (1)	Weight kg/lb
Front	Multi-fixing By $\varnothing$ 22 mm/ 0.87 in. hole	K●I009QL 0.201/0.443 K●I009Q 0.185/0.408
Rear		K●I009QX (2) 0.263/0.580 K●I509Q 0.215/0.474

#### 10 step + "0"



Mounting method	Reference to be completed (1)	Weight kg/lb
Front	Multi-fixing By $\varnothing$ 22 mm/ 0.87 in. hole	K●K010QL 0.211/0.465 K●K010Q 0.195/0.430
Rear		K●K010QX (2) 0.273/0.602 K●K510Q 0.220/0.485

#### 11 step + "0"



Mounting method	Reference to be completed (1)	Weight kg/lb
Front	Multi-fixing By $\varnothing$ 22 mm/ 0.87 in. hole	K●L011QL 0.231/0.509 K●L011Q 0.215/0.474
Rear		K●L011QX (2) 0.293/0.646 K●L511Q 0.240/0.529

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.

Example K1H008Q.

To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.

Example K2H008Q.

(2) Bodies using the  $\varnothing$  22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1●●●.



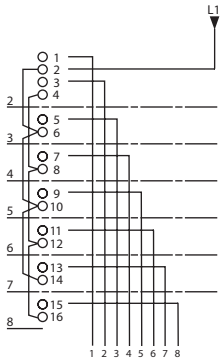

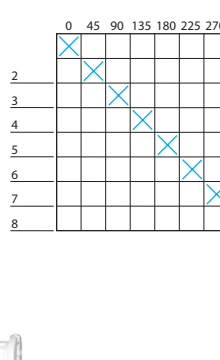





# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

#### Stepping switches (2 to 12 step), single-pole, without "0" position

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●B002NL</b> 0.101/0.223 <b>K●B002N</b> 0.085/0.187 <b>K●B002NX (2)</b> 0.163/0.359
		Rear		<b>K●B502N</b> 0.125/0.275
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●C003NL</b> 0.121/0.267 <b>K●C003N</b> 0.105/0.231 <b>K●C003NX (2)</b> 0.183/0.403
		Rear		<b>K●C503N</b> 0.140/0.309
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●D004NL</b> 0.126/0.278 <b>K●D004N</b> 0.110/0.242 <b>K●D004NX (2)</b> 0.188/0.414
		Rear		<b>K●D504N</b> 0.150/0.331
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●E005NL</b> 0.146/0.322 <b>K●E005N</b> 0.130/0.287 <b>K●E005NX (2)</b> 0.208/0.458
		Rear		<b>K●E505N</b> 0.165/0.364
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●F006NL</b> 0.156/0.344 <b>K●F006N</b> 0.140/0.309 <b>K●F006NX (2)</b> 0.218/0.481
		Rear		<b>K●F506N</b> 0.175/0.386
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●G007NL</b> 0.176/0.388 <b>K●G007N</b> 0.160/0.353 <b>K●G007NX (2)</b> 0.238/0.525
		Rear		<b>K●G507N</b> 0.190/0.419
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●H008NL</b> 0.181/0.399 <b>K●H008N</b> 0.165/0.364 <b>K●H008NX (2)</b> 0.243/0.536
		Rear		<b>K●H508N</b> 0.195/0.430

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.  
Example **K1B002N**.

To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.  
Example **K2B002N**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.



# Cam switches

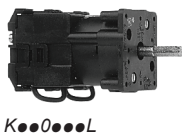
## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

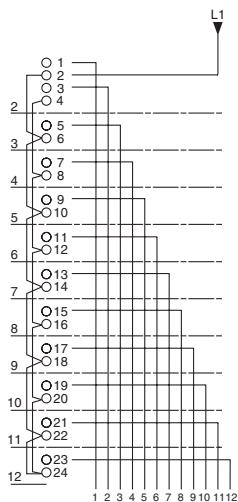
To combine with operating heads:  
see page 4/34

### Stepping switches (2 to 12 step), single-pole, without "0" position (continued)

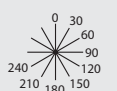
Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg
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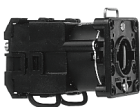
K●●0●●●L



#### 9 step

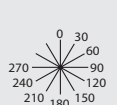


Front	Multi-fixing	<b>K●L009NL</b>	0.201/0.443
	By Ø 22 mm/ 0.87 in. hole	<b>K●L009N</b>	0.185/0.408
Rear		<b>K●L009NX (2)</b>	0.263/0.580
Rear		<b>K●L509N</b>	0.215/0.474

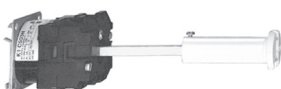


K●●0●●●

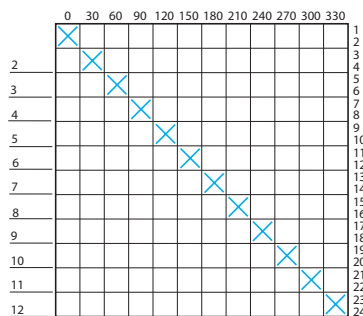
#### 10 step



Front	Multi-fixing	<b>K●K010NL</b>	0.211/0.465
	By Ø 22 mm/ 0.87 in. hole	<b>K●K010N</b>	0.195/0.430
Rear		<b>K●K010NX (2)</b>	0.273/0.602
Rear		<b>K●K510N</b>	0.220/0.485



K●●5●●●



#### 11 step

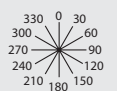


Front	Multi-fixing	<b>K●L011NL</b>	0.231/0.509
	By Ø 22 mm/ 0.87 in. hole	<b>K●L011N</b>	0.215/0.474
Rear		<b>K●L011NX (2)</b>	0.293/0.646
Rear		<b>K●L511N</b>	0.240/0.529



K●●0●●●X

#### 12 step



Front	Multi-fixing	<b>K●M021NL</b>	0.241/0.531
	By Ø 22 mm/ 0.87 in. hole	<b>K●M021N</b>	0.225/0.496
Rear		<b>K●M021NX (2)</b>	0.303/0.668
Rear		<b>K●M521N</b>	0.245/0.540

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
Example **K11009N**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
Example **K21009N**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

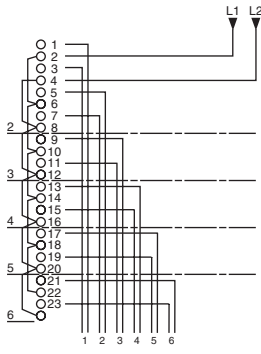

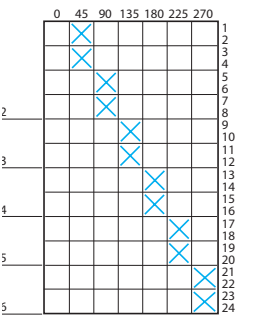



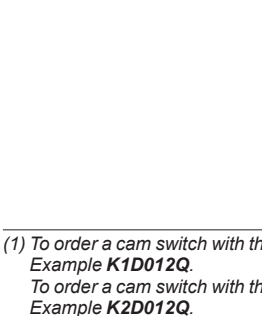

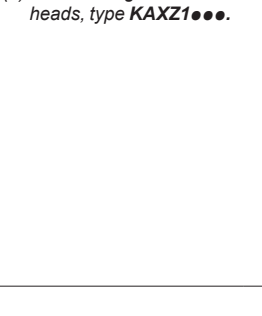

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

#### Stepping switches (2 to 6 step), 2-pole, with "0" position

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
		Front	Multi-fixing	<b>K●D012QL</b> 0.126/0.278
		By Ø 22 mm/0.87 in. hole		<b>K●D012Q</b> 0.110/0.242
		Rear		<b>K●D012QX (2)</b> 0.188/0.414
				<b>K●D512Q</b> 0.150/0.331
		Front.	Multi-fixing	<b>K●F013QL</b> 0.156/0.344
		By Ø 22 mm/0.87 in. hole		<b>K●F013Q</b> 0.140/0.309
		Rear		<b>K●F013QX (2)</b> 0.218/0.481
				<b>K●F513Q</b> 0.175/0.386
		Front	Multi-fixing	<b>K●H014QL</b> 0.181/0.399
		By Ø 22 mm/0.87 in. hole		<b>K●H014Q</b> 0.165/0.364
		Rear		<b>K●H014QX (2)</b> 0.243/0.536
				<b>K●H514Q</b> 0.195/0.430
		Front	Multi-fixing	<b>K●K015QL</b> 0.211/0.465
		By Ø 22 mm/0.87 in. hole		<b>K●K015Q</b> 0.195/0.430
		Rear		<b>K●K015QX (2)</b> 0.273/0.602
				<b>K●K515Q</b> 0.220/0.485
		Front	Multi-fixing	<b>K●M016QL</b> 0.241/0.531
		By Ø 22 mm/0.87 in. hole		<b>K●M016Q</b> 0.225/0.496
		Rear		<b>K●M016QX (2)</b> 0.303/0.668
				<b>K●M516Q</b> 0.245/0.540

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.  
Example **K1D012Q**.

To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.  
Example **K2D012Q**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

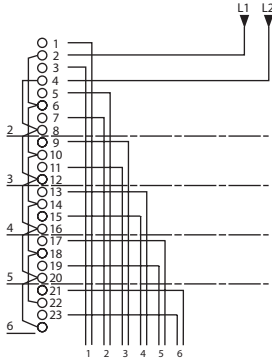

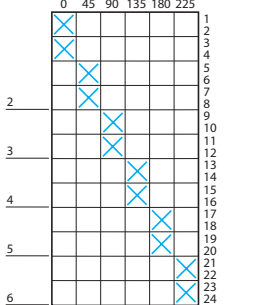



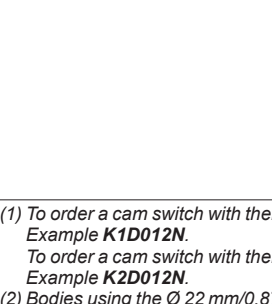



# Cam switches

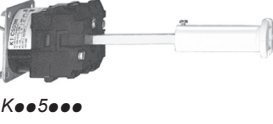
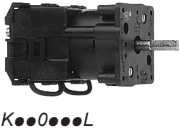
## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Stepping switches (2 to 6 step), 2-pole, without "0" position

Wiring diagram and switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb					
		Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●D012NL</b> <b>K●D012N</b> <b>K●D012NX (2)</b>	0.126/0.278 0.110/0.242 0.188/0.414				
		Rear		<b>K●D512N</b>	0.150/0.331				
				Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●F013NL</b> <b>K●F013N</b> <b>K●F013NX (2)</b>	0.156/0.344 0.140/0.309 0.218/0.481		
				Rear		<b>K●F513N</b>	0.175/0.386		
						Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●H014NL</b> <b>K●H014N</b> <b>K●H014NX (2)</b>	0.181/0.399 0.165/0.364 0.243/0.536
						Rear		<b>K●H514N</b>	0.195/0.430
						Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●K015NL</b> <b>K●K015N</b> <b>K●K015NX (2)</b>	0.211/0.465 0.195/0.430 0.273/0.602
						Rear		<b>K●K515N</b>	0.220/0.485
						Front	Multi-fixing By Ø 22 mm/0.87 in. hole	<b>K●M016NL</b> <b>K●M016N</b> <b>K●M016NX (2)</b>	0.241/0.531 0.225/0.496 0.303/0.668
						Rear		<b>K●M516N</b>	0.245/0.540



(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.  
Example **K1D012N**.  
To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.  
Example **K2D012N**.  
(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

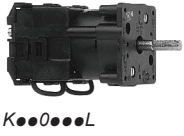
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Stepping switches (2 to 6 step), 3-pole, with "0" position

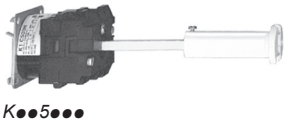


Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
		<b>2 step + "0"</b> 	Front Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K●F022QL</b> <b>K●F022Q</b> <b>K●F022QX (2)</b>	0.156/0.344 0.140/0.309 0.218/0.481
			Rear	<b>K●F522Q</b>	0.175/0.386



		<b>3 step + "0"</b> 	Front Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K●I023QL</b> <b>K●I023Q</b> <b>K●I023QX (2)</b>	0.201/0.443 0.185/0.408 0.263/0.580
			Rear	<b>K●I523Q</b>	0.215/0.474

4



		<b>4 step + "0"</b> 	Front Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K●M024QL</b> <b>K●M024Q</b> <b>K●M024QX (2)</b>	0.241/0.531 0.225/0.496 0.303/0.668
			Rear	<b>K●M524Q</b>	0.245/0.540



		<b>5 step + "0"</b> 	Front Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K●P025QL</b> <b>K●P025Q</b> <b>K●P025QX (2)</b>	0.286/0.630 0.270/0.595 0.348/0.767
			Rear	<b>K●P525Q</b>	0.285/0.628

		<b>6 step + "0"</b> 	Front Multi-fixing By Ø 22 mm/ 0.87 in. hole	<b>K●S026QL</b> <b>K●S026Q</b> <b>K●S026QX (2)</b>	0.321/0.708 0.305/0.672 0.383/0.844
			Rear	<b>K●S526Q</b>	0.320/0.705

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
Example **K1F022Q**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
Example **K2F022Q**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.


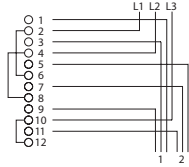
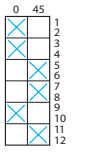


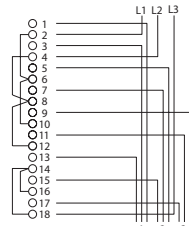
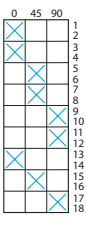


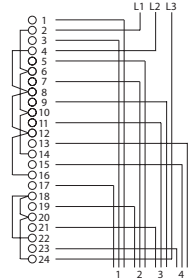
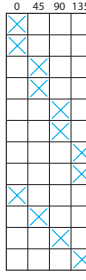

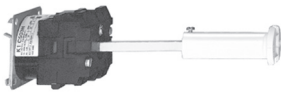
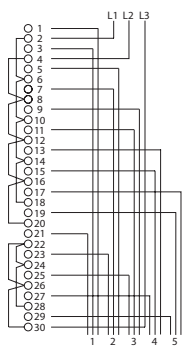
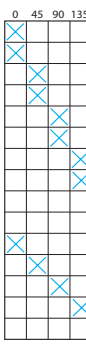


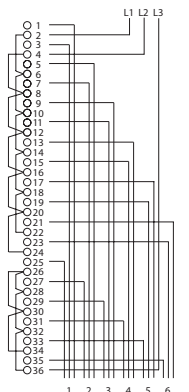
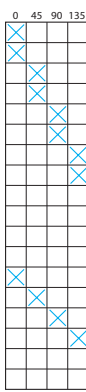

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Stepping switches (2 to 6 step), 3-pole, without "0" position

	Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
 <b>K●●0●●●L</b>			<b>2 step</b> 	Front Multi-fixing	<b>K●F022NL</b>	0.156/0.344
				By Ø 22 mm/ 0.87 in. hole	<b>K●F022N</b>	0.140/0.309
				Rear	<b>K●F022NX (2)</b>	0.218/0.481
				Rear	<b>K●F522N</b>	0.175/0.386
 <b>K●●023●●</b>			<b>3 step</b> 	Front Multi-fixing	<b>K●I023NL</b>	0.201/0.443
				By Ø 22 mm/ 0.87 in. hole	<b>K●I023N</b>	0.185/0.408
				Rear	<b>K●I023NX (2)</b>	0.263/0.580
				Rear	<b>K●I523N</b>	0.215/0.474
 <b>K●●0●●●●</b>			<b>4 step</b> 	Front Multi-fixing	<b>K●M024NL</b>	0.241/0.531
				By Ø 22 mm/ 0.87 in. hole	<b>K●M024N</b>	0.225/0.496
				Rear	<b>K●M024NX (2)</b>	0.303/0.668
				Rear	<b>K●M524N</b>	0.245/0.540
 <b>K●●5●●●●</b>			<b>5 step</b> 	Front Multi-fixing	<b>K●P025NL</b>	0.286/0.630
				By Ø 22 mm/ 0.87 in. hole	<b>K●P025N</b>	0.270/0.595
				Rear	<b>K●P025NX (2)</b>	0.348/0.767
				Rear	<b>K●P525N</b>	0.285/0.628
 <b>K●●0●●●●X</b>			<b>6 step</b> 	Front Multi-fixing	<b>K●S026NL</b>	0.321/0.708
				By Ø 22 mm/ 0.87 in. hole	<b>K●S026N</b>	0.305/0.672
				Rear	<b>K●S026NX (2)</b>	0.383/0.844
				Rear	<b>K●S526N</b>	0.320/0.705

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
 Example **K1F022N**.  
 To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
 Example **K2F022N**.  
 (2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

# Cam switches

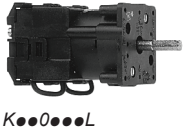
## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

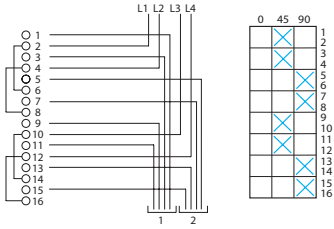
To combine with operating heads:  
see page 4/34

#### Stepping switches (2 to 5 step), 4-pole, with "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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K●●0●●●L



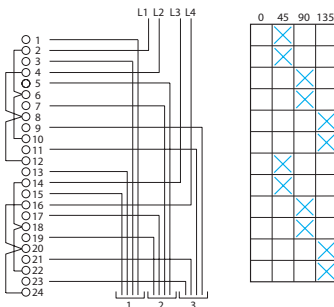
#### 2 step + "0"



Front	Multi-fixing	<b>K●H032QL</b>	0.181/0.399
	By Ø 22 mm/ 0.87 in. hole	<b>K●H032Q</b>	0.165/0.364
Rear		<b>K●H532Q</b>	0.200/0.441



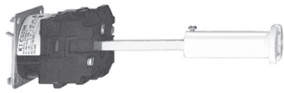
K●●0●●●



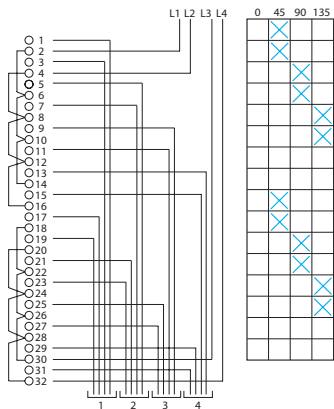
#### 3 step + "0"



Front	Multi-fixing	<b>K●M033QL</b>	0.241/0.531
	By Ø 22 mm/ 0.87 in. hole	<b>K●M033Q</b>	0.225/0.496
Rear		<b>K●M533Q</b>	0.245/0.540



K●●5●●●



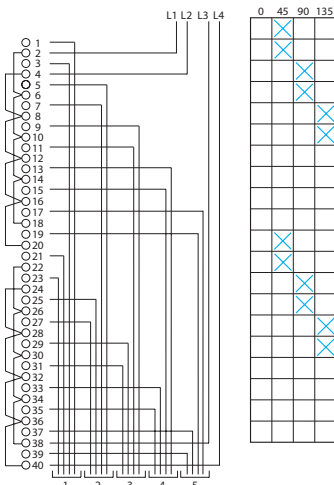
#### 4 step + "0"



Front	Multi-fixing	<b>K●Q034QL</b>	0.296/0.653
	By Ø 22 mm/ 0.87 in. hole	<b>K●Q034Q</b>	0.280/0.617
Rear		<b>K●Q534Q</b>	0.295/0.650



K●●0●●●X



#### 5 step + "0"



Front	Multi-fixing	<b>K●U035QL</b>	0.351/0.774
	By Ø 22 mm/ 0.87 in. hole	<b>K●U035Q</b>	0.335/0.738
Rear		<b>K●U535Q</b>	0.345/0.761

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.

Example **K1H032Q**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.

Example **K2H032Q**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

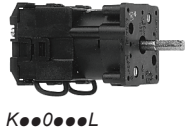
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

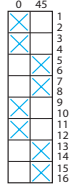
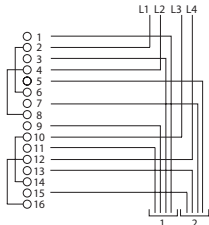
Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Stepping switches (2 to 5 step), 4-pole, without "0" position



K●●0●●●L



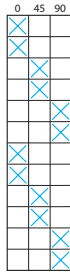
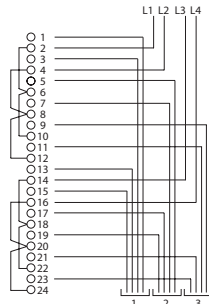
#### 2 step



Mounting method	Reference to be completed (1)	Weight kg/lb
Front Multi-fixing	<b>K●H032NL</b>	0.181/0.399
By Ø 22 mm/ 0.87 in. hole	<b>K●H032N</b>	0.165/0.364
Rear	<b>K●H032NX (2)</b>	0.200/0.441
	<b>K●H532N</b>	0.195/0.430



K●●0●●●



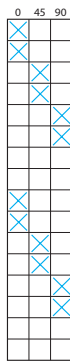
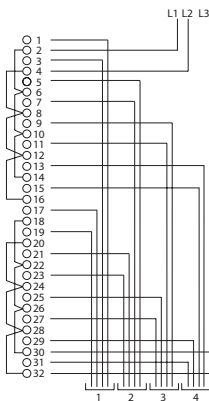
#### 3 step



Mounting method	Reference to be completed (1)	Weight kg/lb
Front Multi-fixing	<b>K●M033NL</b>	0.241/0.531
By Ø 22 mm/ 0.87 in. hole	<b>K●M033N</b>	0.225/0.496
Rear	<b>K●M533N</b>	0.245/0.540



K●●5●●●



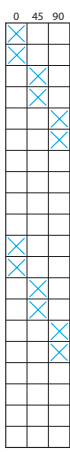
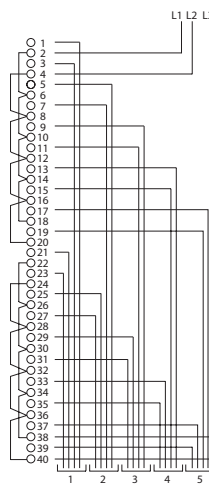
#### 4 step



Mounting method	Reference to be completed (1)	Weight kg/lb
Front Multi-fixing	<b>K●Q034NL</b>	0.296/0.653
By Ø 22 mm/ 0.87 in. hole	<b>K●Q034N</b>	0.280/0.617
Rear	<b>K●Q534N</b>	0.295/0.650



K●●0●●●X



#### 5 step



Mounting method	Reference to be completed (1)	Weight kg/lb
Front Multi-fixing	<b>K●U035NL</b>	0.351/0.774
By Ø 22 mm/ 0.87 in. hole	<b>K●U035N</b>	0.335/0.738
Rear	<b>K●U535N</b>	0.345/0.761

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.

Example **K1H032N**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.

Example **K2H032N**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.



# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

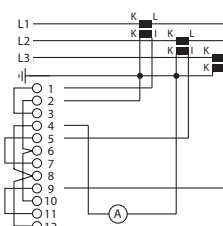
Bodies (contact blocks + fixing plate)

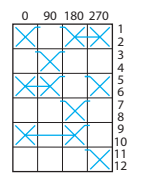
To combine with operating heads:  
see page 4/34


### Ammeter switches with "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb
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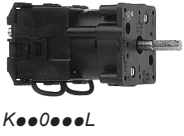
**For 3 circuits**



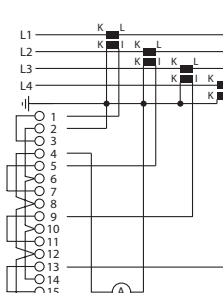


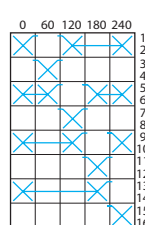


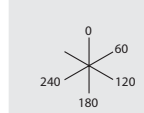
Front	Multi-fixing	<b>K1F003ML</b>	0.156/0.344
	By Ø 22 mm/ 0.87 in. hole	<b>K1F003M</b>	0.140/0.309
		<b>K1F003MX (2)</b>	0.218/0.481
Rear		<b>K1F503M</b>	0.175/0.386



**For 4 circuits**







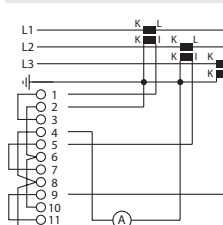
Front	Multi-fixing	<b>K1H004ML</b>	0.181/0.399
	By Ø 22 mm/ 0.87 in. hole	<b>K1H004M</b>	0.165/0.364
		<b>K1H004MX (2)</b>	0.243/0.536
Rear		<b>K1H504M</b>	0.195/0.430

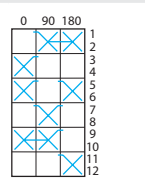


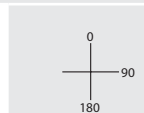
### Ammeter switches without "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb
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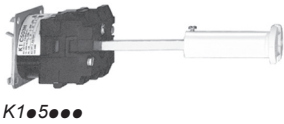
**For 3 circuits**



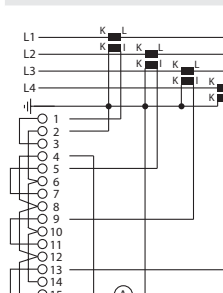


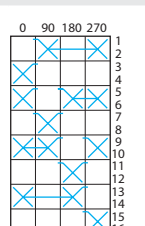


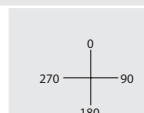
Front	Multi-fixing	<b>K1F013ML</b>	0.156/0.344
	By Ø 22 mm/ 0.87 in. hole	<b>K1F013M</b>	0.140/0.309
		<b>K1F013MX (2)</b>	0.218/0.481
Rear		<b>K1F513M</b>	0.175/0.386



**For 4 circuits**







Front	Multi-fixing	<b>K1H014ML</b>	0.181/0.399
	By Ø 22 mm/ 0.87 in. hole	<b>K1H014M</b>	0.165/0.364
		<b>K1H014MX (2)</b>	0.243/0.536
Rear		<b>K1H514M</b>	0.195/0.430



(1) I<sub>th</sub> = 12 A.  
(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1000**.



# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

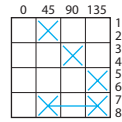
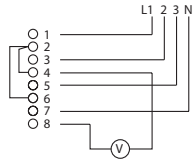
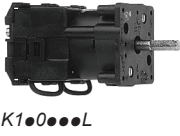
To combine with operating heads:  
see page 4/34

### Voltmeter switches

Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb
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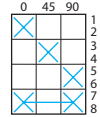
#### For measurements between 3 phases and neutral

##### With "0" position



Front	Multi-fixing	<b>K1D023ML</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K1D023M</b>	0.110/0.242
Rear		<b>K1D523M</b>	0.150/0.331

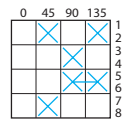
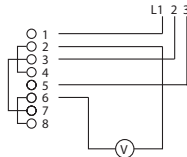
##### Without "0" position



Front	Multi-fixing	<b>K1D033ML</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K1D033M</b>	0.110/0.242
Rear		<b>K1D533M</b>	0.150/0.331

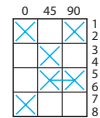
#### For measurements between 3 phases

##### With "0" position

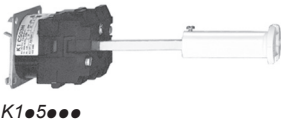


Front	Multi-fixing	<b>K1D024ML</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K1D024M</b>	0.110/0.242
		<b>K1D024MX (2)</b>	0.188/0.414
Rear		<b>K1D524M</b>	0.150/0.331

##### Without "0" position

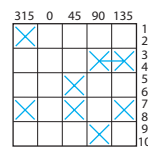
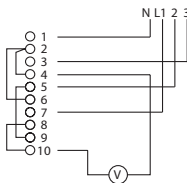


Front	Multi-fixing	<b>K1D034ML</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K1D034M</b>	0.110/0.242
Rear		<b>K1D534M</b>	0.150/0.331



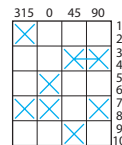
#### For measurements between 3 phases and between 1 phase and neutral

##### With "0" position



Front	Multi-fixing	<b>K1E025ML</b>	0.146/0.322
	By Ø 22 mm/ 0.87 in. hole	<b>K1E025M</b>	0.130/0.287
		<b>K1E025MX (2)</b>	0.208/0.458
Rear		<b>K1E525M</b>	0.165/0.364

##### Without "0" position



Front	Multi-fixing	<b>K1E035ML</b>	0.146/0.322
	By Ø 22 mm/ 0.87 in. hole	<b>K1E035M</b>	0.130/0.287
		<b>K1E535M</b>	0.165/0.364

(1) I<sub>th</sub> = 12 A.

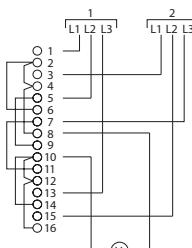
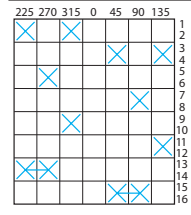
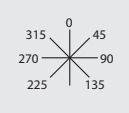

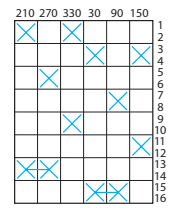
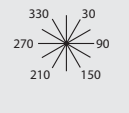
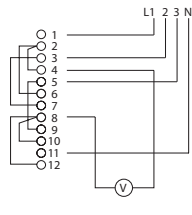
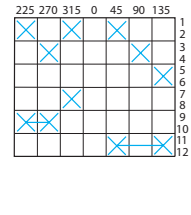
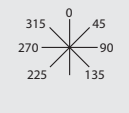

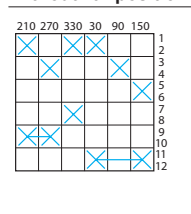

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type KAXZ1000.

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

Voltmeter switches (continued)					
Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb
<b>For measurements between 3 phases of 2 supplies</b>					
			Front Multi-fixing	<b>K1H026ML</b>	0.181/0.399
			By $\varnothing$ 22 mm/ 0.87 in. hole	<b>K1H026M</b>	0.165/0.364
			Rear	<b>K1H526M</b>	0.195/0.430
<b>For measurements between 3 phases and between each of the 3 phases and neutral</b>					
			Front Multi-fixing	<b>K1H036ML</b>	0.181/0.399
			By $\varnothing$ 22 mm/ 0.87 in. hole	<b>K1H036M</b>	0.165/0.364
			Rear	<b>K1H536M</b>	0.195/0.430
			Front Multi-fixing	<b>K1F027ML</b>	0.156/0.344
			By $\varnothing$ 22 mm/ 0.87 in. hole	<b>K1F027M</b>	0.140/0.309
			Rear	<b>K1F027MX (2)</b>	0.218/0.481
			Rear	<b>K1F527M</b>	0.175/0.386
			Front Multi-fixing	<b>K1F037ML</b>	0.156/0.344
			By $\varnothing$ 22 mm/ 0.87 in. hole	<b>K1F037M</b>	0.140/0.309
			Rear	<b>K1F537M</b>	0.175/0.386

(1)  $I_{th} = 12 A$ .

(2) Bodies using the  $\varnothing$  22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1000**.

4

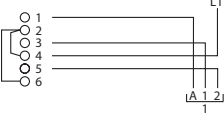
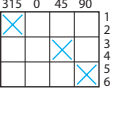
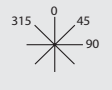
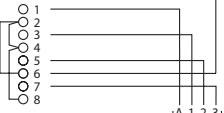
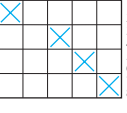
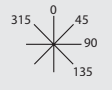
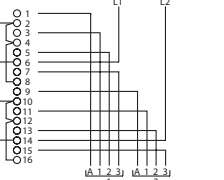
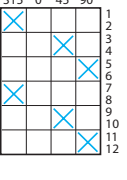

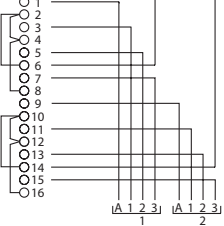
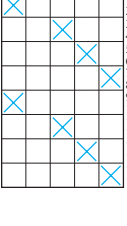

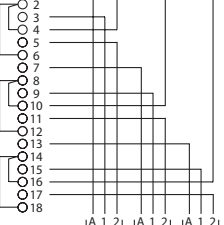
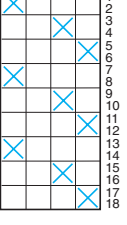

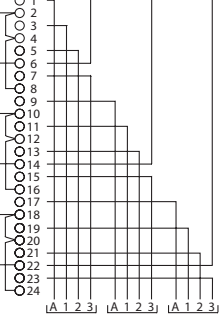
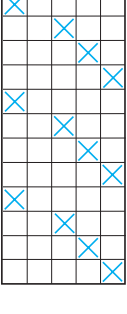
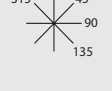
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Stepping switches (2 and 3 step), with "0" position + left-hand position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●C002LL</b>	0.121/0.267
			By Ø 22 mm/ 0.87 in. hole	<b>K●C002L</b>	0.105/0.231
			Rear	<b>K●C502L</b>	0.140/0.309
			Front Multi-fixing	<b>K●D003LL</b>	0.126/0.278
			By Ø 22 mm/ 0.87 in. hole	<b>K●D003L</b>	0.110/0.242
			Rear	<b>K●D503L</b>	0.150/0.331
			Front Multi-fixing	<b>K●F012LL</b>	0.156/0.344
			By Ø 22 mm/ 0.87 in. hole	<b>K●F012L</b>	0.140/0.309
			Rear	<b>K●F012LX (2)</b>	0.218/0.481
				<b>K●F512L</b>	0.175/0.386
			Front Multi-fixing	<b>K●H013LL</b>	0.181/0.399
			By Ø 22 mm/ 0.87 in. hole	<b>K●H013L</b>	0.165/0.364
			Rear	<b>K●H013LX (2)</b>	0.243/0.536
				<b>K●H513L</b>	0.195/0.430
			Front Multi-fixing	<b>K●I022LL</b>	0.201/0.443
			By Ø 22 mm/ 0.87 in. hole	<b>K●I022L</b>	0.185/0.408
			Rear	<b>K●I522L</b>	0.210/0.463
			Front Multi-fixing	<b>K●M023LL</b>	0.241/0.531
			By Ø 22 mm/ 0.87 in. hole	<b>K●M023L</b>	0.225/0.496
			Rear	<b>K●M523L</b>	0.245/0.540

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.  
Example **K1C022Q**.

To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.  
Example **K2C022Q**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

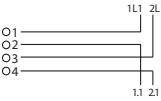
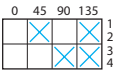

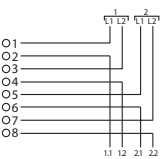
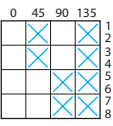

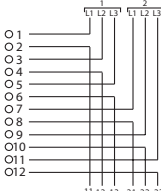
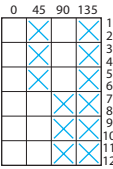

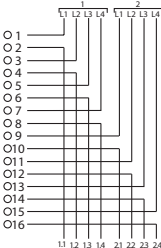
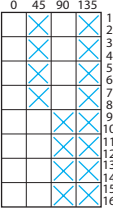

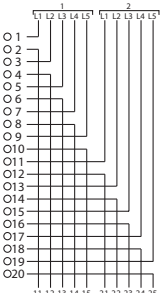
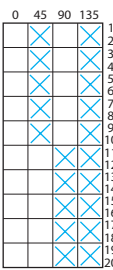



# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

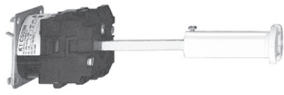
Multi-circuit switches						
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
			Front	Multi-fixing	<b>K●B001SL</b>	0.101/0.223
				By Ø 22 mm/ 0.87 in. hole	<b>K●B001S</b>	0.085/0.187
			Rear		<b>K●B501S</b>	0.163/0.359
					<b>K●B501S</b>	0.125/0.275
			Front	Multi-fixing	<b>K●D002SL</b>	0.126/0.278
				By Ø 22 mm/ 0.87 in. hole	<b>K●D002S</b>	0.110/0.242
			Rear		<b>K●D002SX (2)</b>	0.188/0.414
					<b>K●D502S</b>	0.150/0.331
			Front	Multi-fixing	<b>K●F003SL</b>	0.156/0.344
				By Ø 22 mm/ 0.87 in. hole	<b>K●F003S</b>	0.140/0.309
			Rear		<b>K●F003SX (2)</b>	0.218/0.481
					<b>K●F503S</b>	0.175/0.386
			Front	Multi-fixing	<b>K●H004SL</b>	0.181/0.399
				By Ø 22 mm/ 0.87 in. hole	<b>K●H004S</b>	0.165/0.364
			Rear		<b>K●H504S</b>	0.195/0.430
			Front	Multi-fixing	<b>K●K005SL</b>	0.211/0.465
				By Ø 22 mm/ 0.87 in. hole	<b>K●K005S</b>	0.195/0.430
			Rear		<b>K●K505S</b>	0.220/0.485



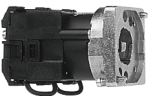
K●●0●●●L



K●●0●●●



K●●5●●●



K●●0●●●X

(1) To order a cam switch with thermal current I<sub>th</sub> = 12 A, replace the ● in the reference by 1.

Example **K1F003S**.

To order a cam switch with thermal current I<sub>th</sub> = 20 A, replace the ● in the reference by 2.

Example **K2F003S**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

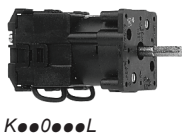
Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

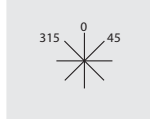
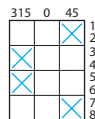
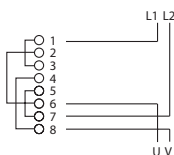
### Reversing switches with "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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#### 2-pole



K●●0●●●L

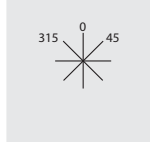
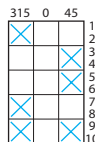
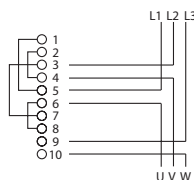


Front	Multi-fixing	<b>K●D002WL</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K●D002W</b>	0.110/0.242
Rear		<b>K●D002WX (2)</b>	0.188/0.414
		<b>K●D502W</b>	0.150/0.331

#### 3-pole



K●●0●●●



Front	Multi-fixing	<b>K●E003WL</b>	0.146/0.322
	By Ø 22 mm/ 0.87 in. hole	<b>K●E003W</b>	0.130/0.287
Rear		<b>K●E003WX (2)</b>	0.208/0.458
		<b>K●E503W</b>	0.165/0.364

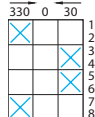
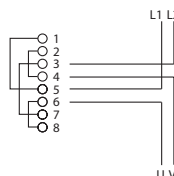
### Reversing switches with spring return from 330° and from 30° to "0" position

Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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#### 2-pole



K●●5●●●

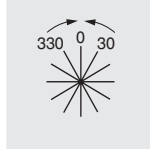
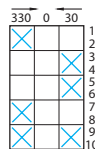
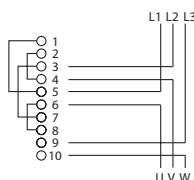


Front	Multi-fixing	<b>K●D022WL</b>	0.126/0.278
	By Ø 22 mm/ 0.87 in. hole	<b>K●D022W</b>	0.110/0.242
Rear		<b>K●D022WX (2)</b>	0.188/0.414
		<b>K●D522W</b>	0.150/0.331

#### 3-pole



K●●0●●●X



Front	Multi-fixing	<b>K●E023WL</b>	0.146/0.322
	By Ø 22 mm/ 0.87 in. hole	<b>K●E023W</b>	0.130/0.287
Rear		<b>K●E023WX (2)</b>	0.208/0.458
		<b>K●E523W</b>	0.165/0.364

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.  
Example **K1D002W**.

To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.  
Example **K2D002W**.


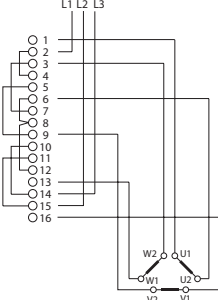
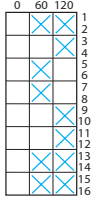


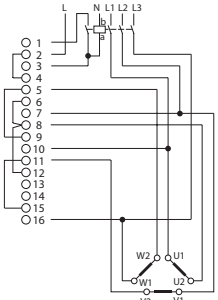
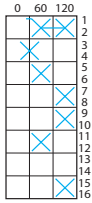

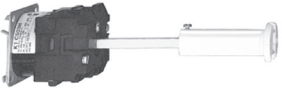
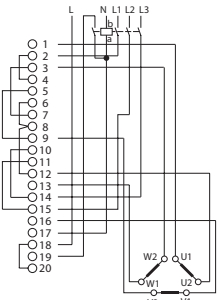
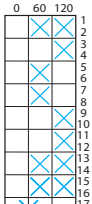


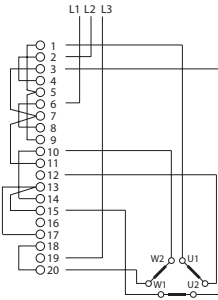
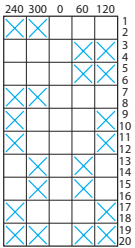

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.

# Cam switches

## Adaptable sub-assemblies, 12 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

Star-delta switches						
Wiring diagram	Switching programme	Switch position	Mounting method	Reference (1)	Weight kg/lb	
 <b>K20000L</b>				Front Multi-fixing <b>K2H001YL</b>	0.181/0.399	
				By Ø 22 mm/ 0.87 in. hole <b>K2H001Y</b>	0.165/0.364	
				<b>K2H001YX (2)</b>	0.243/0.536	
				Rear <b>K2H501Y</b>	0.195/0.430	
<b>With slave contact, without supply disconnection</b>						
 <b>K20000</b>				Front Multi-fixing <b>K2G003YL</b>	0.176/0.388	
				By Ø 22 mm/ 0.87 in. hole <b>K2G003Y</b>	0.160/0.353	
				<b>K2G003YX (2)</b>	0.238/0.525	
				Rear <b>K2G503Y</b>	0.190/0.419	
<b>With slave contact, with supply disconnection</b>						
 <b>K20500</b>				Front Multi-fixing <b>K2K004YL</b>	0.211/0.465	
				By Ø 22 mm/ 0.87 in. hole <b>K2K004Y</b>	0.195/0.430	
				<b>K2K004YX (2)</b>	0.273/0.602	
				Rear <b>K2K504Y</b>	0.220/0.485	
<b>Reversing star-delta switches</b>						
<b>Without slave contact</b>						
 <b>K20000X</b>				Front Multi-fixing <b>K2K006YL</b>	0.211/0.465	
				By Ø 22 mm/ 0.87 in. hole <b>K2K006Y</b>	0.195/0.430	
				<b>K2K506Y</b>	0.220/0.485	
				Rear <b>K2K506Y</b>	0.220/0.485	

(1) Ith = 20 A.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1000**.

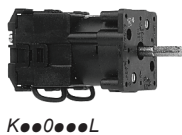
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Reversing star-delta switches (continued)



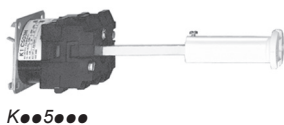
Wiring diagram	Switching programme	Switch position	Mounting method	Reference (2)	Weight kg/lb
<b>With slave contact</b>					
			Front Multi-fixing	<b>K2M007YL</b>	0.241/0.531
			By Ø 22 mm/ 0.87 in. hole	<b>K2M007Y</b>	0.225/0.496
			Rear	<b>K2M507Y</b>	0.245/0.540

### Pole change switches for 2-speed motors



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
<b>For motors with 2 separate windings</b>					
			Front Multi-fixing	<b>K●F001PL</b>	0.156/0.344
			By Ø 22 mm/ 0.87 in. hole	<b>K●F001P</b>	0.140/0.309
			Rear	<b>K●F001PX (3)</b>	0.218/0.481
				<b>K●F501P</b>	0.175/0.386

### For motors with 2 separate windings, with centre "0" position



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●F002PL</b>	0.156/0.344
			By Ø 22 mm/ 0.87 in. hole	<b>K●F002P</b>	0.140/0.309
			Rear	<b>K●F002PX (3)</b>	0.218/0.481
				<b>K●F502P</b>	0.175/0.386

### For motors with tapped "Dahlander" windings



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
			Front Multi-fixing	<b>K●H004PL</b>	0.181/0.399
			By Ø 22 mm/ 0.87 in. hole	<b>K●H004P</b>	0.165/0.364
			Rear	<b>K●H004PX (3)</b>	0.243/0.536
				<b>K●H504P</b>	0.195/0.430

(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.

Example **K1F001P**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.

Example **K2F001P**.

(2)  $I_{th} = 20 A$ .

(3) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.



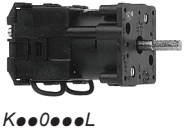
# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Pole change switches for 2-speed motors (continued)

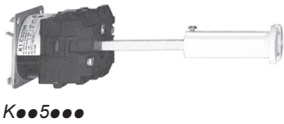


Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
<b>For motors with tapped "Dahlander" windings, with centre "0" position</b>						
			Front	Multi-fixing	<b>K●H005PL</b>	0.181/0.399
				By Ø 22 mm/ 0.87 in. hole	<b>K●H005P</b>	0.165/0.364
					<b>K●H005PX (2)</b>	0.243/0.536
			Rear		<b>K●H505P</b>	0.195/0.430

4



Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb	
<b>Reversing pole change switches for 2-speed motors</b>						
<b>For motors with 2 separate windings, with centre "0" position</b>						
			Front	Multi-fixing	<b>K●K008PL</b>	0.211/0.465
				By Ø 22 mm/ 0.87 in. hole	<b>K●K008P</b>	0.195/0.430
			Rear		<b>K●K508P</b>	0.220/0.485



<b>For motors with tapped "Dahlander" windings, with centre "0" position</b>						
			Front	Multi-fixing	<b>K●M009PL</b>	0.241/0.531
				By Ø 22 mm/ 0.87 in. hole	<b>K●M009P</b>	0.225/0.496
			Rear		<b>K●M509P</b>	0.245/0.540



(1) To order a cam switch with thermal current  $I_{th} = 12 A$ , replace the ● in the reference by 1.  
Example **K1H005P**.

To order a cam switch with thermal current  $I_{th} = 20 A$ , replace the ● in the reference by 2.  
Example **K2H005P**.

(2) Bodies using the Ø 22 mm/0.87 in. hole mounting method that can be fitted with chromium plated metal bezel operating heads, type **KAXZ1●●●**.



# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

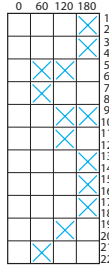
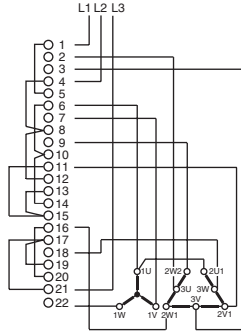
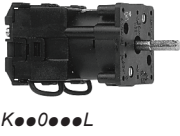
Bodies (contact blocks + fixing plate)

To combine with operating heads:  
see page 4/34

### Pole change switches for 3-speed motors

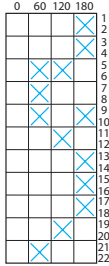
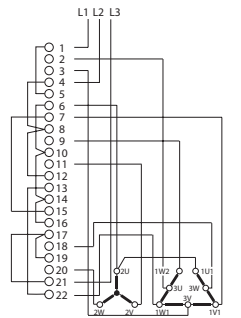
Wiring diagram	Switching programme	Switch position	Mounting method	Reference to be completed (1)	Weight kg/lb
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#### For motors with open tapped "Dahlander" winding and separate winding for low speed

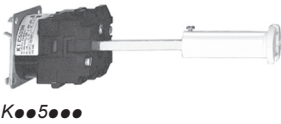


Front	Multi-fixing	<b>K●L010PL</b>	0.231/0.509
	By Ø 22 mm/ 0.87 in. hole	<b>K●L010P</b>	0.215/0.474
Rear		<b>K●L510P</b>	0.240/0.529

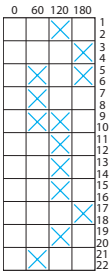
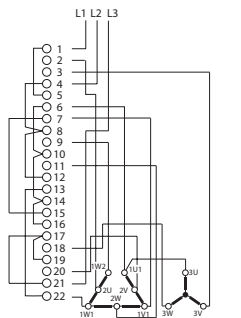
#### For motors with open tapped "Dahlander" winding and separate winding for intermediate speed



Front	Multi-fixing	<b>K●L011PL</b>	0.231/0.509
	By Ø 22 mm/ 0.87 in. hole	<b>K●L011P</b>	0.215/0.474
Rear		<b>K●L511P</b>	0.240/0.529



#### For motors with open tapped "Dahlander" winding and separate winding for high speed



Front	Multi-fixing	<b>K●L012PL</b>	0.231/0.509
	By Ø 22 mm/ 0.87 in. hole	<b>K●L012P</b>	0.215/0.474
Rear		<b>K●L512P</b>	0.240/0.529

(1) To order a cam switch with thermal current  $I_{th} = 12$  A, replace the ● in the reference by 1.  
Example **K1L010P**.  
To order a cam switch with thermal current  $I_{th} = 20$  A, replace the ● in the reference by 2.  
Example **K2L010P**.

4

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A

### Operating heads

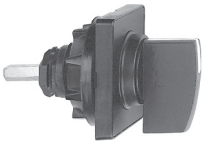
To combine with bodies: see pages 4/2 to 4/33



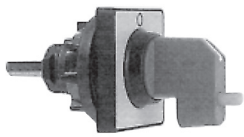
KBG3H



KCG3Y



KAC1H



KCC1Y



KBC1



KBD1H

#### Heads for "multi-fixing" front mounting bodies

Description	Switching angle and marking	Type of operator	Background colour of legend	Padlocking device	Reference	Weight kg/lb
<b>With 45 x 45 mm/1.77 x 1.77 in. front plate and handle</b>						
<b>With blank legend</b> (for engraving by user)	–	Black handle L = 35 mm/1.38 in.	Matt black Metallic	Without Without	<b>KAG3H</b> <b>KBG3H</b>	0.012/0.026 0.012/0.026
<b>With marked legend</b>	90°	Red handle L = 35 mm/1.38 in.	Yellow	Without With	<b>KCG3H</b> <b>KCG3Y</b>	0.012/0.026 0.024/0.053
<b>Without legend</b> (1)	–	Black handle L = 35 mm/1.38 in. Red handle L = 35 mm/1.38 in.	–	Without With	<b>KDG3H</b> <b>KDG3Y</b>	0.010/0.022 0.022/0.048

#### Heads for Ø 22 mm/0.87 in. hole, front mounting bodies

Description	Switching angle and marking	Type of operator	Background colour of legend	Padlocking device	Reference	Weight kg/lb
<b>With 45 x 45 mm/1.77 x 1.77 in. front plate and handle</b>						
<b>With blank legend</b> (for engraving by user)	–	Black handle L = 35 mm/1.38 in.	Matt black Metallic	Without Without	<b>KAC1H</b> <b>KBC1H</b>	0.048/0.106 0.048/0.106
<b>With marked legend</b>	45°	Black handle L = 35 mm/1.38 in.	Matt black Metallic	Without Without	<b>KAC1H41</b> <b>KBC1H41</b>	0.012/0.026 0.012/0.026
	45°	Black handle L = 35 mm/1.38 in.	Matt black Metallic	Without Without	<b>KAC1H48</b> <b>KBC1H48</b>	0.012/0.026 0.012/0.026
	60°	Black handle L = 35 mm/1.38 in.	Matt black Metallic	Without Without	<b>KAC1H61</b> <b>KBC1H61</b>	0.048/0.106 0.048/0.106
	90°	Red handle L = 35 mm/1.38 in.	Yellow	Without With	<b>KCC1LH</b> <b>KCC1Y</b>	0.048/0.106 0.060/0.132
<b>Without legend</b> (1)	–	Black handle L = 35 mm/1.38 in. Red handle L = 35 mm/1.38 in.	–	Without Without	<b>KDC1H</b> <b>KDC1LH</b>	0.046/0.101 0.046/0.101

#### With 45 x 45 mm/1.77 x 1.77 in. front plate and key operator (2)

<b>With blank legend</b> (for engraving by user)	45° and 90°	Key (2)	Matt black Metallic	Without Without	<b>KAC1S</b> <b>KBC1S</b>	0.063/0.139 0.063/0.139
	60°	Key (2)	Matt black Metallic	Without Without	<b>KAC1Z</b> <b>KBC1Z</b>	0.063/0.139 0.063/0.139
<b>Without legend</b> (1)	45° and 90°	Key (2)	–	Without	<b>KDC1S</b>	0.061/0.134
	60°	Key (2)	–	Without	<b>KDC1Z</b>	0.061/0.134

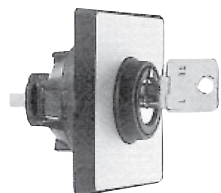
#### With 60 x 60 mm/2.36 x 2.36 in. front plate and handle

<b>With blank legend</b> (for engraving by user)	–	Black handle L = 42 mm/1.65 in.	Matt black Metallic	Without Without	<b>KAD1H</b> <b>KBD1H</b>	0.053/0.117 0.053/0.117
<b>With marked legend</b>	90°	Red handle L = 42 mm/1.65 in.	Yellow	Without	<b>KCD1MH</b>	0.053/0.117
<b>Without legend</b> (1)	–	Black handle L = 42 mm/1.65 in.	–	Without	<b>KDD1H</b>	0.053/0.117

(1) For separate marked legend ordering information, see pages 4/36 to 4/39.

(2) Head supplied with "Ronis" 8R1 key. To order a head with a "Ronis" 455 key, add the suffix **R** to the references listed above. Example: reference for Ø 22 mm/0.87 in. hole, front mounting 45 x 45 mm/1.77 x 1.77 in. operating head with 45° switching angle and matt black legend, becomes **KAC1SR**. For a head with "Ronis" 8R15 key, use the suffix **R1**.

To combine with bodies: see pages 4/2 to 4/33



KBD1●



KBA1H



KBA1●



KAXZ1C12



KBE1H

## Heads for Ø 22 mm/0.87 in. hole, front mounting bodies (continued)

Description	Switching angle and marking	Type of operator	Background colour of legend	Padlocking device	Reference	Weight kg/lb
<b>With 60 x 60 mm/2.36 x 2.36 in. front plate and key operator (1)</b>						
<b>With blank legend</b> (to be engraved by user)	45° and 90°	Key (1)	Matt black	Without	<b>KAD1S</b>	0.068/0.150
			Metallic	Without	<b>KBD1S</b>	0.068/0.150
	60°	Key (1)	Matt black	Without	<b>KAD1Z</b>	0.068/0.150
			Metallic	Without	<b>KBD1Z</b>	0.068/0.150
<b>Without legend</b> (2)	45° and 90°	Key (1)	–	Without	<b>KDD1S</b>	0.066/0.145
	60°	Key (1)	–	Without	<b>KDD1Z</b>	0.066/0.145

Description	Switching angle and marking	Type of operator	Colour of bezel	Padlocking device	Reference	Weight kg/lb
<b>With Ø 29 mm/1.14 in., metallic finish, plastic bezel and handle or key operator (1)</b>						
<b>Circular heads</b>	–	Black handle L = 35 mm/1.38 in.	Matt black	Without	<b>KAA1H</b>	0.042/0.093
			Metallic	Without	<b>KBA1H</b>	0.042/0.093
	45°	Key (1)	Matt black	Without	<b>KAA1S</b>	0.057/0.126
			Metallic	Without	<b>KBA1S</b>	0.057/0.126
	60°	Key (1)	Matt black	Without	<b>KAA1Z</b>	0.057/0.126
			Metallic	Without	<b>KBA1Z</b>	0.057/0.126

<b>With Ø 38 mm/1.50 in., black, plastic bezel and handle</b>						
<b>Circular head</b>	–	Black handle L = 35 mm/1.38 in.	Matt black	Without	<b>KAA2H</b>	0.048/0.106

<b>With Ø 28.5 mm/1.12 in., chromium plated, metal bezel (3) (2) and standard, handle, long handle or key operator (4)</b>						
<b>Circular heads</b>	–	Standard black handle	Metal	Without	<b>KAXZ1M12</b>	0.040/0.088
		Standard red handle	Metal	Without	<b>KAXZ1M14</b>	0.040/0.088
		Long black handle	Metal	Without	<b>KAXZ1C12</b>	0.040/0.088
		Long red handle	Metal	Without	<b>KAXZ1C14</b>	0.040/0.088
	30°	Key	Metal	Without	<b>KAXZ1S13● (4)</b>	0.065/0.143
	45°	Key	Metal	Without	<b>KAXZ1S14● (4)</b>	0.065/0.143
	60°	Key	Metal	Without	<b>KAXZ1S16● (4)</b>	0.065/0.143
	90°	Key	Metal	Without	<b>KAXZ1S19● (4)</b>	0.065/0.143

## Operating heads for 4 hole, rear mounting bodies

Description	Switching angle and marking	Type of operator	Background colour of legend	Padlocking device	Reference	Weight kg/lb
<b>With 45 x 45 mm/1.77 x 1.77 in. front plate and handle</b>						
<b>With blank legend</b> (to be engraved by user)	–	Black handle L = 35 mm/1.38 in.	Matt black	Without	<b>KAE1H</b>	0.029/0.064
			Metallic	Without	<b>KBE1H</b>	0.029/0.064
<b>With marked legend</b>	90°	Red handle L = 35 mm/1.38 in.	Yellow	Without	<b>KCE1LH</b>	0.029/0.064
				With	<b>KCE1Y</b>	0.060/0.132

<b>Without legend</b> (2)	–	Black handle L = 35 mm/1.38 in.	–	Without	<b>KDE1H</b>	0.027/0.059
			Red handle L = 35 mm/1.38 in.	–	Without	<b>KDE1LH</b>

<b>With 60 x 60 mm/2.36 x 2.36 in. front plate and handle</b>						
<b>With blank legend</b> (to be engraved by user)	–	Black handle L = 42 mm/1.65 in	Matt black	Without	<b>KAF1H</b>	0.068/0.150
			Metallic	Without	<b>KBF1H</b>	0.068/0.150
<b>With marked legend</b>	90°	Red handle L = 42 mm/1.65 in	Yellow	Without	<b>KCF1MH</b>	0.068/0.150
<b>Without legend</b> (2)	–	Black handle L = 42 mm/1.65 in	–	Without	<b>KDF1H</b>	0.066/0.145

(1) Head supplied with "Ronis" 8R1 key. To order a head with a "Ronis" 455 key, add the suffix **R** to the references listed above.  
Example: reference for operating head with 60 x 60 mm/2.36 x 2.36 in. front plate, key operator, blank legend, 45° switching angle and matt black background, becomes **KAD1SR**. For a head with "Ronis" 8R15 key, use the suffix **R1**.

(2) For separate marked legend ordering information, see pages 4/36 to 4/39.

(3) Heads **only** for use with bodies K●●●●●X, incorporating adaptor plate **KZ127**. See pages 4/2 to 4/32.

(4) To order:

- a head with key n° 455, replace the ● in the reference by 1. Example: **KAXZ1S131**,

- a head with key n° 421, replace the ● in the reference by 2. Example: **KAXZ1S132**,

- a head with key n° 520, replace the ● in the reference by 3. Example: **KAXZ1S133**,

- a head with a special key, replace the ● in the reference by 9. Example: **KAXZ1S139** (state the key number on the order).

Key withdrawal from all positions.

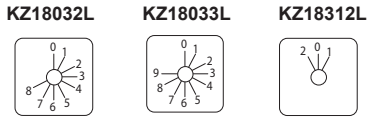
# Cam switches

Adaptable sub-assemblies, 12 and 20 A  
Legends for **MULTI-FIXING** heads

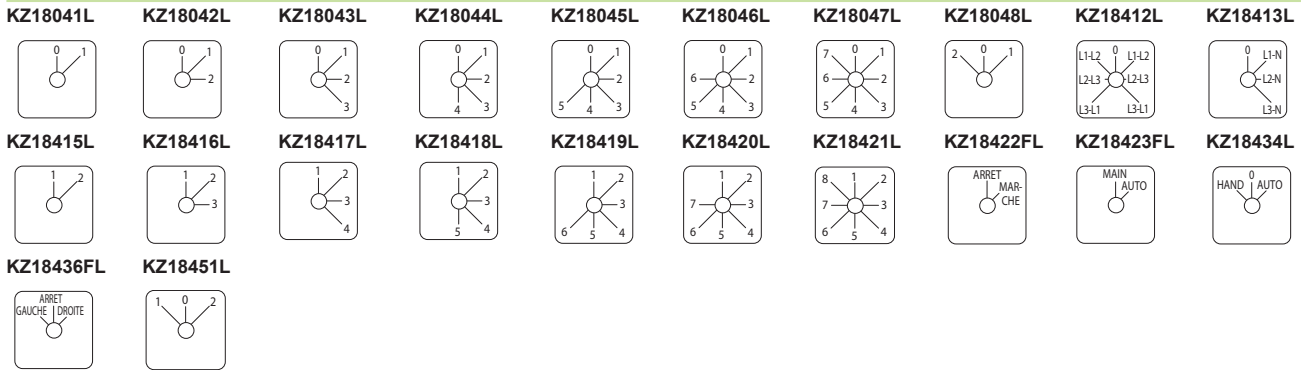
## 45 x 45 mm/1.77 x 1.77 in. legends - marked (1)

White text on black background

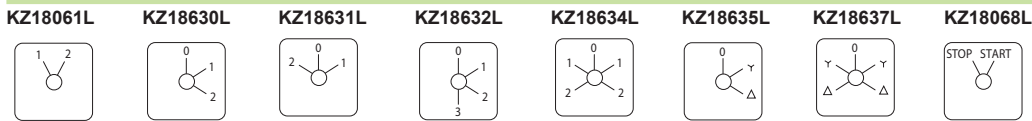
30°



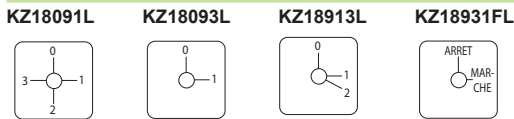
45°



60°



90°



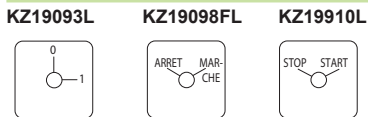
Black text on yellow background

45°

KZ19041L



90°



## 45 x 45 mm/1.77 x 1.77 in. legends - unmarked

Colour	Sold in lots of	Unit reference	Weight kg/lb
Black	20	KZ17L	0.003/0.007
Metallic	20	KZ18L	0.003/0.007
Yellow	10	KZ19L	0.003/0.007

(1) Weight = 0.003 kg/0.007 lb.

# Cam switches

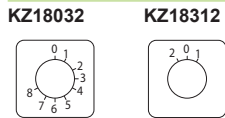
Adaptable sub-assemblies, 12 and 20 A

Legends for Ø 22 mm HOLE mounting heads with plastic bezel

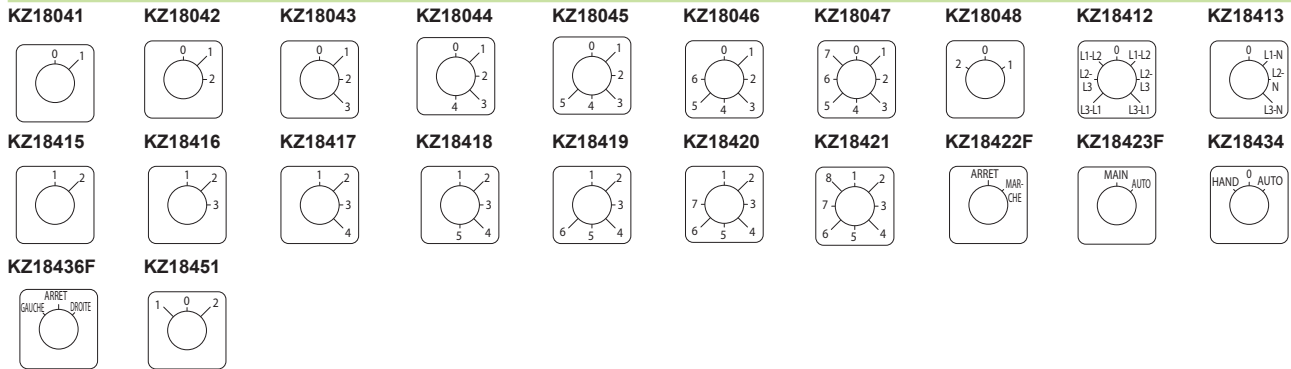
## 45 x 45 mm/1.77 x 1.77 in. legends - marked (1)

Black text on metallic background

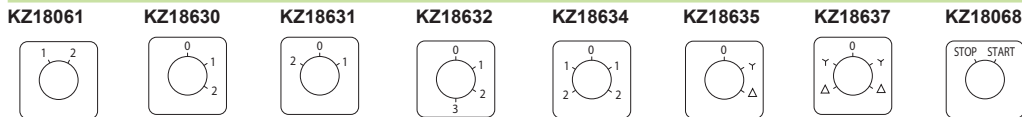
30°



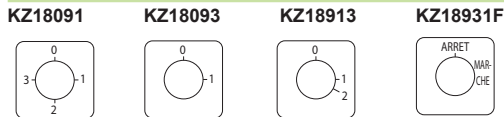
45°



60°

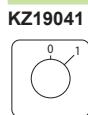


90°



Black text on yellow background

45°



90°



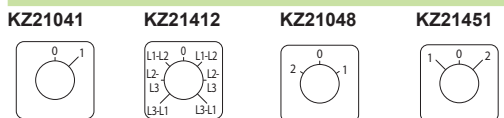
## 45 x 45 mm/1.77 x 1.77 in.. legends - unmarked

Colour	Sold in lots of	Unit reference	Weight kg/lb
Black	20	KZ17	0.003/0.007
Metallic	20	KZ18	0.003/0.007
Yellow	10	KZ19	0.003/0.007

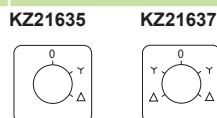
## 60 x 60 mm/2.36 x 2.36 in. legends - marked (2)

Black text on metallic background

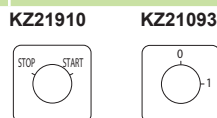
45°



60°



90°



## 60 x 60 mm/2.36 x 2.36 in. legends - unmarked

Colour	Sold in lots of	Unit reference	Weight kg/lb
Black	20	KZ20	0.003/0.007
Metallic	20	KZ21	0.003/0.007
Yellow	10	KZ22	0.003/0.007

(1) Weight = 0.003 kg/0.007 lb.

(2) Weight = 0.005 kg/0.011 lb.

# Cam switches

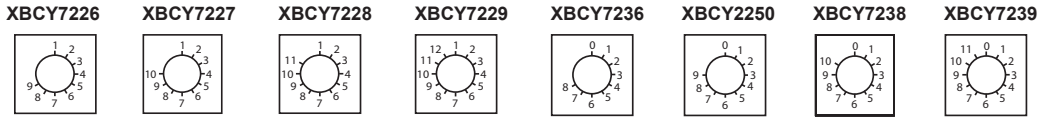
Adaptable sub-assemblies, 12 and 20 A

Legends for Ø 22 mm HOLE mounting heads with chromium plated metal bezel, type KAXZ1●●●

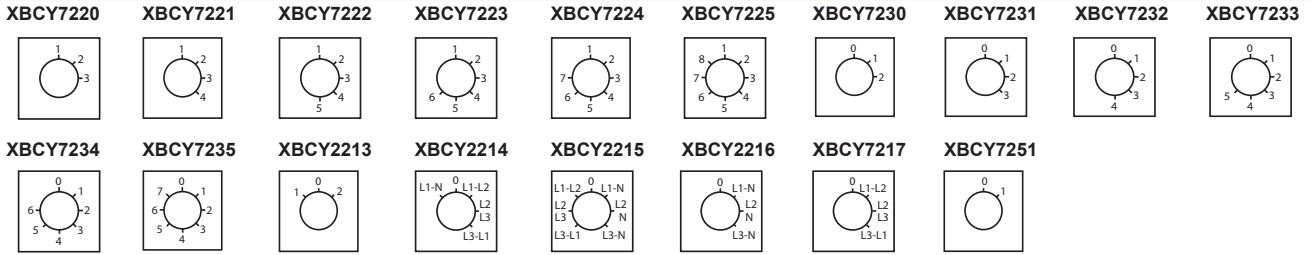
## 46 x 46 mm - marked (PVC) (1)

White text on black background

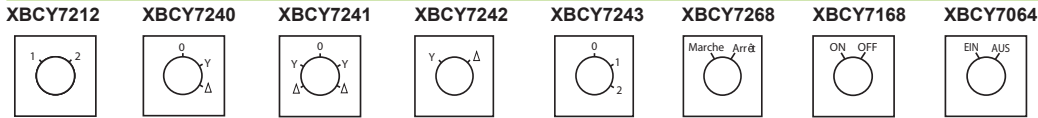
30°



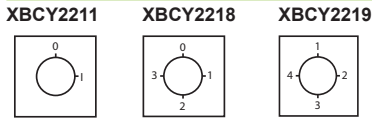
45°



60°



90°



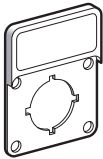
## 46 x 46 mm legends - unmarked (PVC)

Colour	Sold in lots of	Unit reference	Weight kg/lb
Black/red	10	KZ17X	0.004/0.009
White/yellow	10	KZ19X	0.004/0.009

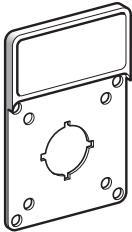
(1) Weight = 0.004 kg/0.009 lb.

# Cam switches

## Adaptable sub-assemblies, 12 and 20 A Legend holders for heads



KZ13



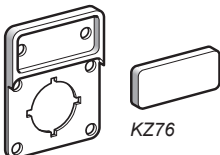
KZ15



KZ01R

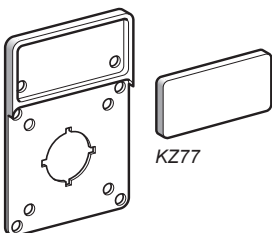


KZ2



KZ14

KZ76



KZ16

KZ77

### Legend holders with and without legend

Description	For use with heads	Legend marking	Sold in lots of	Unit reference	Weight kg/lb
<b>With blank legend</b>	With 45 x 45 mm/1.77 x 1.77 in. front – plate (1)	–	5	KZ13	0.004/0.009
	With 60 x 60 mm/2.36 x 2.36 in. front plate (1)	–	5	KZ15	0.010/0.022
	Circular, with Ø 29 mm/1.14 in. collar	–	5	KZ01R	0.010/0.022
<b>With marked legend</b>	Circular, with Ø 29 mm/1.14 in. collar	1 2	1	KZ1	0.003/0.007
		2 0 1	5	KZ2	0.003/0.007
<b>Without legend</b>	With 45 x 45 mm/1.77 x 1.77 in. front plate (1)	–	20	KZ14	0.003/0.007
	With 60 x 60 mm/2.36 x 2.36 in. front plate (1)	–	10	KZ16	0.007/0.015

### Blank legends (for engraving) for legend holders

Description	For use with heads	Sold in lots of	Unit reference	Weight kg/lb
<b>Legend for legend holder KZ14</b> Plastic with metallic finish. Self-adhesive. For engraved markings.	With 45 x 45 mm/1.77 x 1.77 in. front plate (1)	20	KZ76	0.002/0.004
<b>Legend for legend holder KZ16</b> Plastic with metallic finish. Self-adhesive. For engraved markings.	With 60 x 60 mm/2.36 x 2.36 in. front plate (1)	10	KZ77	0.003/0.007

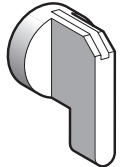
(1) Operating heads for single Ø 22 mm/0.87 in. hole or 4 hole mounting.

# Cam switches

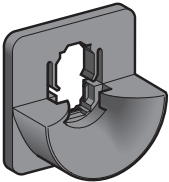
Complete switches, 12 and 20 A  
Separate components and accessories



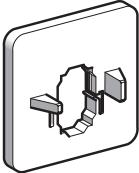
KZ27H



KZ27



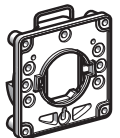
KZ32



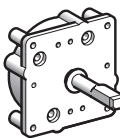
KZ83



KZ127



KZ140



KZ141

Handles					
Description	Colour	Dimensions	Sold in lots of	Unit reference	Weight
		mm/in.			kg/lb
New shape	Black	35/1.38	5	KZ27H	0.007/0.015
		42/1.65	5	KZ28H	0.009/0.020
	Red	35/1.38	5	KZ41H	0.007/0.015
Old shape	Black	34/1.34	5	KZ27	0.007/0.015
		42/1.65	5	KZ28	0.009/0.020

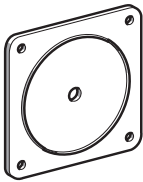
Accessories					
Description	For use with	Dimensions	Sold in lots of	Unit reference	Weight
		mm/in.			kg/lb
Door interlocking plate	Rear mounting switches	45 x 45/ 1.77 x 1.77	5	KZ32	0.010/0.022
Plate with rubber seal	Rear mounting switches. IP 65 between front plate and operating head	60 x 60/ 2.36 x 2.36	5	KZ83	0.018/0.040
Adaptor plate, metal (replacement)	Mounting KAXZ1●●● chromium plated metal bezel heads on front mounting bodies for Ø 22 mm/0.87 in. hole	–	1	KZ127	0.088/0.194
Plastic plate (replacement)	Ø 22 mm/0.87 in. hole, front mounting, clip-in bodies	–	1	KZ140	0.010/0.022
Multi-fixing plate (replacement)	"Multi-fixing", front mounting, – bodies	–	1	KZ141	0.026/0.057



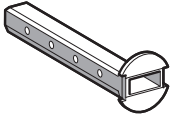
# Cam switches

## Complete switches, 12 and 20 A

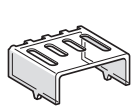
### Separate components and accessories



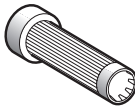
KZ6●



KZ5●



KZ3●



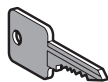
Z01



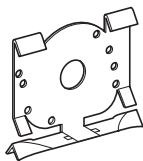
KZ30



KZ93



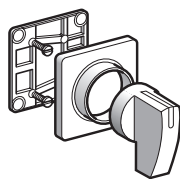
Z18



KZ31



KZ95



KZ91H

### Accessories (continued)

Description	For use with		Sold in lots of	Unit reference	Weight kg/lb
<b>Rubber seals</b> for IP 65 degree of protection	Ø 22 mm/0.87 in. or 4 hole, front mounting, operating heads with 45 x 45 mm/1.77 x 1.77 in. front plate		5	KZ65	0.003/0.007
	Ø 22 mm/0.87 in. or 4 hole, front mounting, operating heads with 60 x 60 mm/2.36 x 2.36 in. front plate		5	KZ66	0.004/0.009
	Multi-fixing operating heads with 45 x 45 mm/1.77 x 1.77 in. front plate		5	KZ73	0.004/0.009
<b>Shaft couplers</b>	Ø 6 mm/0.24 in. shaft	Length = 26 mm/1.02 in.	3	KZ52	0.007/0.015
		Length = 60 mm/2.36 in.	3	KZ50	0.013 /0.029
<b>Terminal covers</b>	Contact blocks	4 contacts	1	KZ35	0.010/0.022
		8 contacts	1	KZ36	0.020 /0.044
		12 contacts	1	KZ37	0.004/0.009
		16 contacts	1	KZ38	0.040/0.088
		20 contacts	1	KZ39	0.050 /0.110
<b>Nut wrench</b>	M22 fixing nuts		5	Z01	0.010/0.022
<b>Fixing nut, M22</b>	Fixing operating heads on panel or in an enclosure		5	KZ30	0.007/0.015
<b>Mounting adaptor</b>	Converting Ø 30.5 mm/1.20 in. fixing hole to Ø 22.5 mm/0.88 in.		50	KZ93	0.003/0.007
<b>Keys</b>	8D1 key lock		2	Z18	0.010/0.022
	"Ronis" 8R1 key lock		2	Z18R1	0.010/0.022
	"Ronis" 455 key lock		2	Z18R	0.010/0.022
	"Ronis" 8R15 key lock		2	Z18R15	0.010/0.022
<b>Quick assembly device</b>	Mounting on 35 mm/1.38 in. rails to DIN 46277. 2 fixing screws included for rear mounting		5	KZ31	0.030/0.066
<b>Fixing screws</b> 3.5 x 16 mm/0.14x 0.63 in.	4 hole fixing operating heads		100	KZ95	0.001/0.066
<b>Cam switch installation kit</b>	Installation of a cam switch on a distribution panel Comprising: - mounting plate, - 45 x 45 mm/1.77 x 1.77 in. front plate, without legend - black handle, length 35 mm/1.38 in. (KZ27H), - 2 fixing screws		1	KZ91H	0.010/0.022



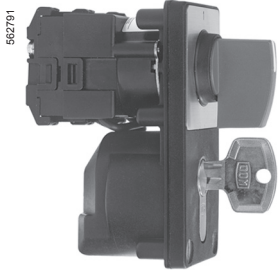
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## Complete switches, 12 A with key operated lock

- Front mounting by 6 screws Ø 5.2 mm, with 55 x 100mm front plate
- Stepping switches, 2 to 5 step..... 5/2
- Start selector switches changeover switches..... 5/6
- Changeover switches ..... 5/7

# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate

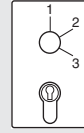
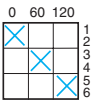
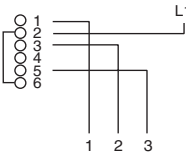


K1C003NZ2

## Stepping switches (3 step), without "0" position

Wiring diagram and switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
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### 1-pole

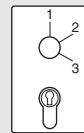
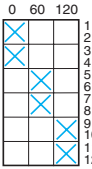
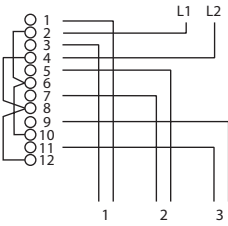


Red **K1C003NZ2** 0.170/0.374



Black **K1C003NZ4** 0.170/0.374

### 2-pole

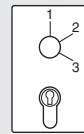
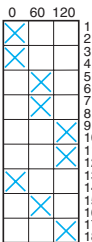
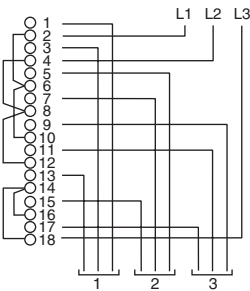


Red **K1F013NZ2** 0.170/0.374



Black **K1F013NZ4** 0.170/0.374

### 3-pole



Red **K1I023NZ2** 0.170/0.374



Black **K1I023NZ4** 0.170/0.374

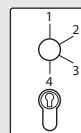
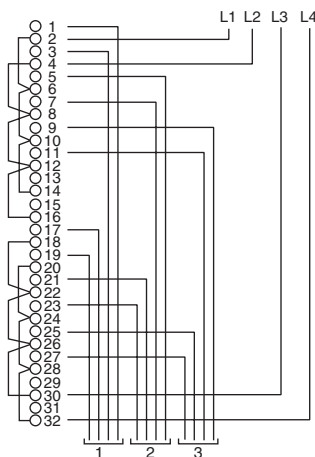
# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate

## Stepping switches (4 step), 4-pole, without "0" position

Wiring diagram and switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
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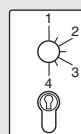
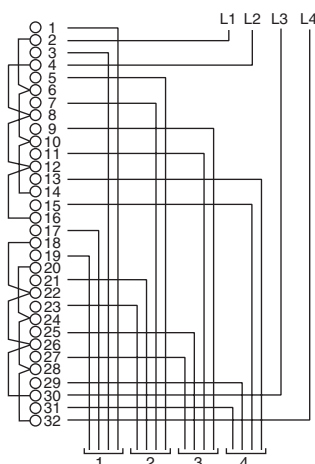
### 4 step (1)



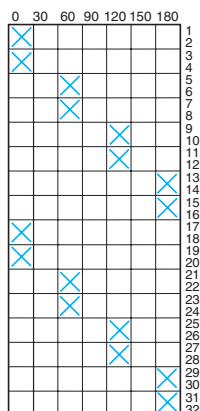
Red **K1Q034NZ2** 0.170/0.374

Black **K1Q034NZ4** 0.170/0.374

### 4 step with intermediate steps at 30°



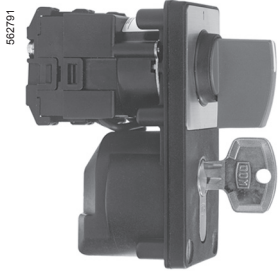
Red **K1Q8621Z1** 0.170/0.374



(1) Switching programme identical for 4 step and 4 step with intermediate steps at 30°.

# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate

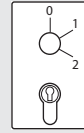
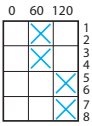
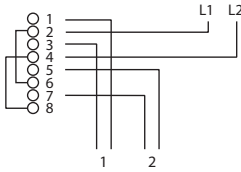


K1D012QZ2

## Stepping switches (2 step), with "0" position

Wiring diagram and switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
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### 2-pole

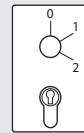
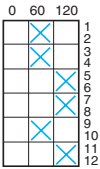
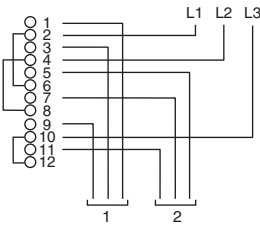


Red **K1D012QZ2** 0.170/0.374



Black **K1D012QZ4** 0.170/0.374

### 3-pole

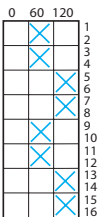
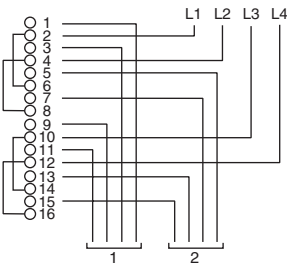


Red **K1F022QZ2** 0.170/0.374



Black **K1F022QZ4** 0.170/0.374

### 4-pole



Red **K1H032QZ2** 0.170/0.374



Black **K1H032QZ4** 0.170/0.374

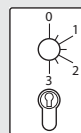
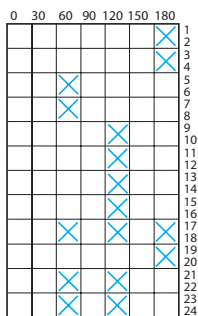
# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate

## Stepping switches (3 step), 2-pole, with "0" position

Switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
---------------------	-----------------------------	------------------	-----------	--------------

### 3 step with intermediate steps at 30°

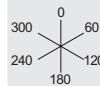
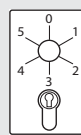
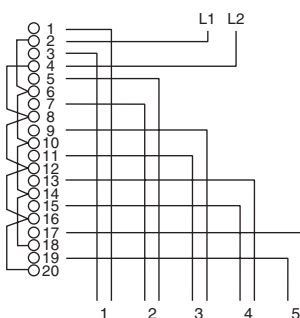


Red **K1M10317Z1** 0.170/0.374

## Stepping switches (5 step), 2-pole, with "0" position

Wiring diagram and switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
--	-----------------------------	------------------	-----------	--------------

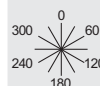
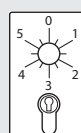
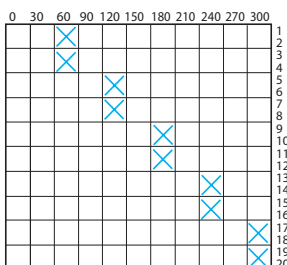
### 5 step (1)



Red **K1K015NZ2** 0.170/0.374

Black **K1K015NZ4** 0.170/0.374

### 5 step with intermediate steps at 30°



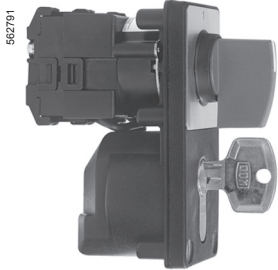
Red **K1K1060Z1** 0.170/0.374

(1) Switching programme identical for 5 step and 5 step with intermediate steps at 30°.



# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate

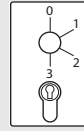
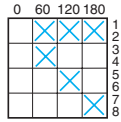


K1D032RZ2

## Start selector switches (3-position) with "0" position

Switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
---------------------	-----------------------------	------------------	-----------	--------------

### 1-pole

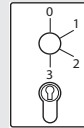
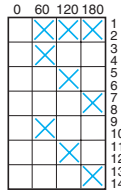


Red **K1D032RZ2** 0.170/0.374



Black **K1D032RZ4** 0.170/0.374

### 2-pole

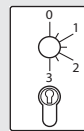
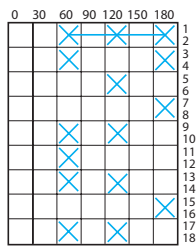


Red **K1G043RZ2** 0.170/0.374



Black **K1G043RZ4** 0.170/0.374

### 2-pole with intermediate positions at 30°



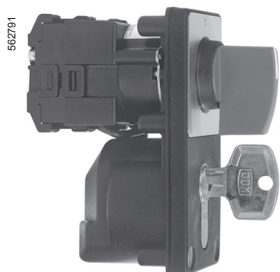
Red **K1I9289Z1** 0.170/0.374





# Cam switches

Complete switches, 12 A with key operated lock  
 Front mounting by 6 screws Ø 5.2 mm  
 with 55 x 100 mm front plate



K1B001UZ2

### Start selector switches (4-position) with "0" position

Switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
		Red	<b>K1Q10805Z1</b>	0.170/0.374

### Changeover switches with "0" position

Wiring diagram and switching programme	Marking and switch position	Colour of handle	Reference	Weight kg/lb
<b>1-pole</b> 		Red	<b>K1B001UZ2</b>	0.170/0.374
		Black	<b>K1B001UZ4</b>	0.170/0.374
<b>2-pole</b> 		Red	<b>K1D002UZ2</b>	0.170/0.374
		Black	<b>K1D002UZ4</b>	0.170/0.374
<b>3-pole</b> 		Red	<b>K1F003UZ2</b>	0.170/0.374
		Black	<b>K1F003UZ4</b>	0.170/0.374





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**Switches, 10 and 16 A, mounted in plastic enclosure**

- Emergency stop switches..... 6/2
- OFF-ON switches..... 6/3

# Cam switches

Switches mounted in plastic enclosure, 10 and 16 A



KA●●●●●G

**“Emergency stop” switches in enclosure**

**Specifications**

- PVC enclosure.
- 60 x 60 mm/2.36 x 2.36 in. operating head, red handle (without padlocking device) (1) on yellow background. Marking: O I.
- Legend holder with metallic finish blank legend.
- Protection degree (conforming to standard EN/IEC 60529): IP 65.

Composition (2)				Dimensions w x h x d (3)	Thermal current (Ithe) (4)	Reference	Weight
Poles	N	N/O	N/C				
				<b>mm/in.</b>	<b>A</b>		<b>kg/lb</b>
1	-	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10 16	<b>KA1A050G</b> <b>KA2A050G</b>	0.365/0.805 0.365/0.805
3	-	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10 16	<b>KA1C051G</b> <b>KA2C051G</b>	0.390/0.860 0.390/0.860
3	1	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10 16	<b>KA1D052G</b> <b>KA2D052G</b>	0.400/0.882 0.400/0.882
3	-	1	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10 16	<b>KA1D053G</b> <b>KA2D053G</b>	0.400/0.882 0.400/0.882
3	-	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1E054G</b> <b>KA2E054G</b>	0.694/1.530 0.694/1.530
3	-	2	2	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1G055G</b> <b>KA2G055G</b>	0.719/1.585 0.719/1.585
3	1	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1F056G</b> <b>KA2F056G</b>	0.704/1.552 0.704/1.552
6	-	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1F057G</b> <b>KA2F057G</b>	0.704/1.552 0.704/1.552
6	1	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1G058G</b> <b>KA2G058G</b>	0.719/1.585 0.719/1.585
6	-	1	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1G059G</b> <b>KA2G059G</b>	0.719/1.585 0.719/1.585
6	-	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1H060G</b> <b>KA2H060G</b>	0.724/1.596 0.724/1.596
9	-	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1I061G</b> <b>KA2I061G</b>	0.744/1.640 0.744/1.640
9	1	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1K062G</b> <b>KA2K062G</b>	0.749/1.651 0.719/1.585
9	-	1 (5)	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10 16	<b>KA1K063G</b> <b>KA2K063G</b>	0.719/1.585 0.719/1.585

(1) To order a switch with a red padlockable handle (up to 3 padlocks), replace the letter A (2<sup>nd</sup> letter) in the references shown above by the letter C.  
Example : **KA1A050G** becomes **KC1A050G**.

(2) Poles : main contacts  
 N/O contact : late make (unballasting contact)  
 N/C contact : signaling contact  
 Neutral conductor (N) : early make, late break.

(3) Total depth, including operating head.

(4) Permissible power, AC-23 at 400 V :

K1 switches : 2.2 kW,  
 K2 switches : 5.5 kW.

(5) Contact not late make.

## Cam switches

Switches mounted in plastic enclosure,  
10 and 16 A

KD●●●●●G

## OFF-ON switches in enclosure

## Specifications

- PVC enclosure.
- 60 x 60 mm/2.36 x 2.36 in. operating head, black handle (without padlocking device) on metallic background. Marking: O I.
- Legend holder with metallic finish blank legend.
- Protection degree (conforming to standard EN/IEC 60529): IP 65.

Composition (1)				Dimensions w x h x d (2)	Thermal current (Ithe) (3)	Reference	Weight
Poles	N	N/O	N/C				
				mm/in.	A		kg/lb
1	-	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10	KD1A050G	0.365/0.805
					16	KD2A050G	0.365/0.805
3	-	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10	KD1C051G	0.390/0.860
					16	KD2C051G	0.390/0.860
3	1	-	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10	KD1D052G	0.400/0.882
					16	KD2D052G	0.400/0.882
3	-	1	-	74 x 135 x 106/ 2.91 x 5.31 x 4.17	10	KD1D053G	0.400/0.882
					16	KD2D053G	0.400/0.882
3	-	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1E054G	0.694/1.530
					16	KD2E054G	0.694/1.530
3	-	2	2	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1G055G	0.719/1.585
					16	KD2G055G	0.719/1.585
3	1	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1F056G	0.704/1.552
					16	KD2F056G	0.704/1.552
6	-	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1F057G	0.704/1.552
					16	KD2F057G	0.704/1.552
6	1	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1G058G	0.719/1.585
					16	KD2G058G	0.719/1.585
6	-	1	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1G059G	0.719/1.585
					16	KD2G059G	0.719/1.585
6	-	1	1	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1H060G	0.724/1.596
					16	KD2H060G	0.724/1.596
9	-	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1I061G	0.744/1.640
					16	KD2I061G	0.744/1.640
9	1	-	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1K062G	0.749/1.651
					16	KD2K062G	0.749/1.651
9	-	1 (4)	-	105 x 170 x 146/ 4.13 x 6.69 x 5.74	10	KD1K063G	0.749/1.651
					16	KD2K063G	0.749/1.651

(1) Poles : main contacts

- N/O contact : late make (unballasting contact)
- N/C contact : signaling contact
- Neutral conductor (N) : early make, late break.

(2) Total depth, including operating head.

(3) Permissible power, AC-23 at 400 V :

- K1 switches : 2.2 kW.
- K2 switches : 5.5 kW.

(4) Contact not late make.



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## Complete switches, 32 to 150 A

- General ..... 7/2
- With 64 x 64 mm front plate (32 to 63 A ratings) and 88 x 88 mm front plate (115 and 150 A ratings)
  - Switches ..... 7/3
  - Changeover switches ..... 7/5
  - Star-delta and reversing star-delta switches ..... 7/6
  - Pole change and reversing switches ..... 7/7

# Cam switches

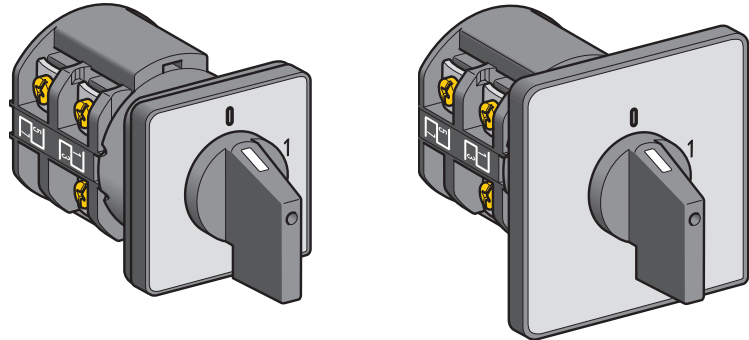
Complete switches, 32 to 150 A

The range of K30 to K150 cam switches (32 to 150 A ratings) comprises only complete switches. These products are more specifically designed for direct control of simple machines.

## Complete switches

- switches
- stepping switches
- changeover switches
- voltmeter switches
- ammeter switches
- starting switches

## Front mounting

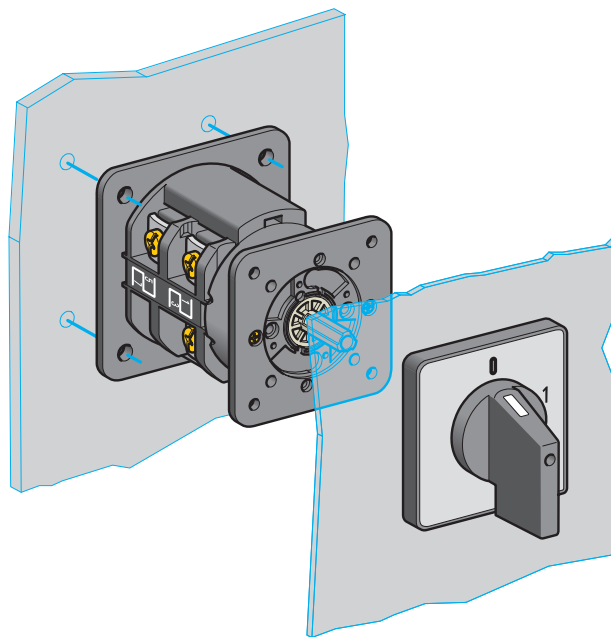


By 4 holes  
with 64 x 64 mm/2.52 x 2.52 in. front plate  
32 to 63 A ratings  
K30, K50 and K63

By 4 holes  
with 88 x 88 mm/3.46 x 3.46 in. front plate  
115 to 150 A ratings  
K115 and K150

## "Multi-fixing" mounting

## Rear mounting



By 4 holes on 48 mm/1.89 in. centres  
32 to 63 A ratings  
K30, K50 and K63

By 4 holes on 68 mm/2.68 in. centres  
115 to 150 A ratings  
K115 and K150



# Cam switches

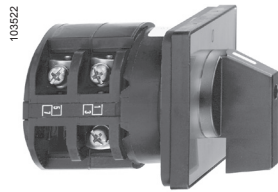
Complete switches, 32 to 150 A

With 64 x 64 mm front plate (32 to 63 A ratings)

and 88 x 88 mm front plate (115 and 150 A ratings)



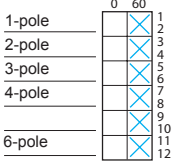
K30C003AP



K50C003AP

## Switches with 60° switching angle

Front mounting						
Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight	
			A		kg/lb	
		1	32	<b>K30A001AP</b>	0.130/0.287	
			50	<b>K50A001AP</b>	0.175/0.386	
		2	32	<b>K30B002AP</b>	0.170/0.375	
			50	<b>K50B002AP</b>	0.215/0.474	
		3	32	<b>K30C003AP</b>	0.224/0.494	
			50	<b>K50C003AP</b>	0.275/0.606	
			63	<b>K63C003AP</b>	0.345/0.761	
			115	<b>K115C003AP</b>	0.680/1.499	
			150	<b>K150C003AP</b>	0.790/1.742	
		4	32	<b>K30D004AP</b>	0.250/0.551	
			50	<b>K50D004AP</b>	0.305/0.672	
			63	<b>K63D004AP</b>	0.390/0.860	
	115	<b>K115D004AP</b>	0.745/1.642			
	150	<b>K150D004AP</b>	0.880/1.940			
6	32	<b>K30F006AP</b>	0.425/0.937			
	50	<b>K50F006AP</b>	0.530/1.168			
	63	<b>K63F006AP</b>	0.590/1.301			



# Cam switches

Complete switches, 32 to 150 A  
 With 64 x 64 mm front plate (32 to 63 A ratings)  
 and 88 x 88 mm front plate (115 and 150 A ratings)

## Switches with 90° switching angle

### Front mounting



K63C003HP



K150D004HP

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight
			A		
		3	32	K30C003HP	0.224/0.494
			50	K50C003HP	0.275/0.606
			63	K63C003HP	0.345/0.761
			115	K115C003HP	0.680/1.499
			150	K150C003HP	0.790/1.742
		4	32	K30D004HP	0.250/0.551
			50	K50D004HP	0.305/0.672
			63	K63D004HP	0.390/0.860
			115	K115D004HP	0.745/1.642
			150	K150D004HP	0.880/1.940

### Rear mounting

		3	32	K30C503HP	0.250/0.551
			50	K50C503HP	0.300/0.661
			63	K63C503HP	0.370/0.816
			115	K115C503HP	0.720/1.587
			150	K150C503HP	0.830/1.830
		4	32	K30D504HP	0.280/0.617
			50	K50D504HP	0.350/0.772
			63	K63D504HP	0.440/0.970
			115	K115D504HP	0.790/1.742
			150	K150D504HP	0.930/2.050

# Cam switches

Complete switches, 32 to 150 A

With 64 x 64 mm front plate (32 to 63 A ratings)  
and 88 x 88 mm front plate (115 and 150 A ratings)

103522



K50B001UP

## Changeover switches with "0" position

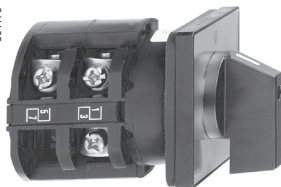
### Front mounting

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight				
			A			kg/lb			
		1	32	K30B001UP	0.170/0.375				
			50	K50B001UP	0.215/0.474				
			150	K150B001UP	0.790/1.742				
		2		32	32	K30D002UP	0.250/0.551		
					50	K50D002UP	0.305/0.672		
					150	K150D002UP	0.790/1.742		
				3		32	32	K30F003UP	0.425/0.937
							50	K50F003UP	0.530/1.168
							63	K63F003UP	0.590/1.301
		4		32	115	K115F003UP	0.645/1.422		
					150	K150F003UP	0.760/1.675		
					32	K30H004UP	0.485/1.069		
				50	K50H004UP	0.610/1.345			
				63	K63H004UP	0.680/1.499			
				115	K115H004UP	0.750/1.653			
150	K150H004UP	0.880/1.940							

## Changeover switches without "0" position

### Front mounting

501179



K63F013UP

		3	32	K30F013UP	0.425/0.937		
			50	K50F013UP	0.530/1.168		
			63	K63F013UP	0.590/1.301		
		115		32	115	K115F013UP	0.645/1.422
					150	K150F013UP	0.760/1.675
					32	K30H014UP	0.485/1.069
		4	50	K50H014UP	0.610/1.345		
			63	K63H014UP	0.680/1.499		
			115	K115H014UP	0.750/1.653		
		150		32	150	K150H014UP	0.880/1.940

# Cam switches

Complete switches, 32 to 150 A  
 With 64 x 64 mm front plate (32 to 63 A ratings)  
 and 88 x 88 mm front plate (115 and 150 A ratings)

103522

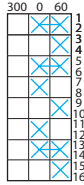


K50H001YP

## Star-delta switches

### Front mounting

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight
			A		
		3	32	K30H001YP	0.485/1.069
			50	K50H001YP	0.610/1.345
			63	K63H001YP	0.680/1.499
			115	K115H001YP	0.750/1.653
			150	K150H001YP	0.880/1.940



501177

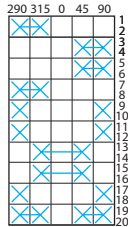


K115K006YP

## Reversing star-delta switches

### Front mounting

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight
			A		
		3	32	K30K006YP	0.560/1.235
			50	K50K006YP	0.690/1.521
			63	K63K006YP	0.770/1.697
			115	K115K006YP	0.880/1.940
			150	K150K006YP	0.990/2.183



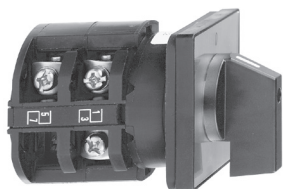
# Cam switches

Complete switches, 32 to 150 A

With 64 x 64 mm front plate (32 to 63 A ratings)  
and 88 x 88 mm front plate (115 and 150 A ratings)

Accessories

501179



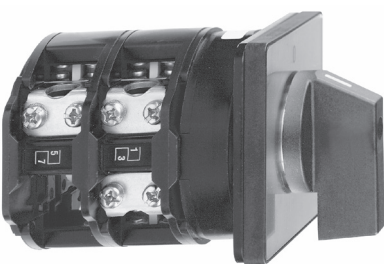
K63H004PP

## Pole change switches for 2-speed motors (for motors with tapped "Dahlander" windings)

Front mounting

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight
			A		kg/lb
		3	32	K30H004PP	0.485/1.069
			50	K50H004PP	0.610/1.345
			63	K63H004PP	0.680/1.499

501178



K150D002WP

## Reversing switches with "0" position

Front mounting

Wiring diagram and switching programme	Marking and switch position	Number of poles	Thermal current (Ith)	Reference	Weight
		2	32	K30D002WP	0.250/0.551
			50	K50D002WP	0.305/0.672
			63	K63D002WP	0.390/0.860
			115	K115D002WP	0.745/1.642
			150	K150D002WP	0.880/1.940
		3	32	K30E003WP	0.385/0.849
			50	K50E003WP	0.485/1.069
			63	K63E003WP	0.540/1.190
			115	K115E003WP	0.590/1.301
			150	K150E003WP	0.710/1.565

## Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Legend holders With blank legend	Square heads 64 x 64 mm/ 2.52 x 2.52 in.	5	KZN15	0.020/0.044
	Square heads 88 x 88 mm/ 3.46 x 3.46 in.	5	KZN103	0.040/0.088
Replacement blank legends for legend holder	KZN15	5	KZ77N	0.025/0.055
	KZN103	5	KZ100N	0.040/0.088
Blank legends for metallic finish front plate	64 x 64	5	KZN21	0.035/0.077
	88 x 88	5	KZN24	0.045/0.099





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K		K1C003NZ2		K1D009BX		K1D529B		K1F027M	
K1A001ACH	3/6	K1C003NZ4	5/2	K1D010B	4/10	K1D530B	4/11	K1F027MCH	4/26
K1A001ALH	3/6	K1C003QCH	3/9	K1D010BL	4/10	K1D531B	4/11	K1F027ML	3/19
K1A001B	4/9	K1C003QLH	3/9	K1D011B	4/10	K1D532B	4/11	K1F027MLH	4/26
K1A001BL	4/9	K1C004B	4/9	K1D011BL	4/10	K1D533M	4/25	K1F027MX	4/26
K1A001BX	4/9	K1C004BL	4/9	K1D012NCH	3/12	K1D534M	4/25	K1F037M	4/26
K1A001TCH	3/7	K1C004BX	4/9	K1D012NLH	3/12	K1E005ACH	3/6	K1F037MCH	3/19
K1A001TLH	3/7	K1C005B	4/9	K1D012QCH	3/11	K1E005ALH	3/6	K1F037ML	4/26
K1A002TCH	3/7	K1C005BL	4/9	K1D012QLH	3/11	K1E005NCH	3/10	K1F037MLH	3/19
K1A002TLH	3/7	K1C005BX	4/9	K1D012QZ2	5/4	K1E005NLH	3/10	K1F503M	4/24
K1A501B	4/9	K1C006B	4/9	K1D012QZ4	5/4	K1E005QCH	3/9	K1F513M	4/24
K1B001UCH	3/15	K1C006BL	4/9	K1D012UCH	3/15	K1E005QLH	3/9	K1F527M	4/26
K1B001ULH	3/15	K1C006BX	4/9	K1D012ULH	3/15	K1E025M	4/25	K1F537M	4/26
K1B001UZ2	5/7	K1C007B	4/9	K1D023M	4/25	K1E025MCH	3/19	K1G043RZ2	5/6
K1B001UZ4	5/7	K1C007BL	4/9	K1D023MCH	3/18	K1E025ML	4/25	K1G043RZ4	5/6
K1B002ACH	3/6	K1C007BX	4/9	K1D023ML	4/25	K1E025MLH	3/19	K1H004M	4/24
K1B002ALH	3/6	K1C024B	4/10	K1D023MLH	3/18	K1E025MX	4/25	K1H004MCH	3/17
K1B002B	4/9	K1C024BL	4/10	K1D023MX	4/25	K1E035M	4/25	K1H004ML	4/24
K1B002BL	4/9	K1C024BX	4/10	K1D024M	4/25	K1E035MCH	3/19	K1H004MLH	3/17
K1B002BX	4/9	K1C025B	4/10	K1D024MCH	3/19	K1E035ML	4/25	K1H004MX	4/24
K1B002NCH	3/10	K1C025BL	4/10	K1D024ML	4/25	K1E035MLH	3/19	K1H004UCH	3/15
K1B002NLH	3/10	K1C025BX	4/10	K1D024MLH	3/19	K1E525M	4/25	K1H004ULH	3/15
K1B002QCH	3/9	K1C026B	4/10	K1D024MX	4/25	K1E535M	4/25	K1H014M	4/24
K1B002QLH	3/9	K1C026BL	4/10	K1D028B	4/11	K1F003M	4/24	K1H014MCH	3/17
K1B003B	4/9	K1C026BX	4/10	K1D028BL	4/11	K1F003MCH	3/16	K1H014ML	4/24
K1B003BL	4/9	K1C027B	4/11	K1D028BX	4/11	K1F003ML	4/24	K1H014MLH	3/17
K1B003BX	4/9	K1C027BL	4/11	K1D029B	4/11	K1F003MLH	3/16	K1H014MX	4/24
K1B003TCH	3/8	K1C027BX	4/11	K1D029BL	4/11	K1F003MX	4/24	K1H014NCH	3/12
K1B003TLH	3/8	K1C504B	4/9	K1D029BX	4/11	K1F003UCH	3/15	K1H014NLH	3/12
K1B004TCH	3/8	K1C505B	4/9	K1D030B	4/11	K1F003ULH	3/15	K1H014QCH	3/11
K1B004TLH	3/8	K1C506B	4/9	K1D030BL	4/11	K1F003UZ2	5/7	K1H014QLH	3/11
K1B006TCH	3/15	K1C507B	4/9	K1D030BX	4/11	K1F003UZ4	5/7	K1H014UCH	3/15
K1B006TLH	3/15	K1C524B	4/10	K1D031B	4/11	K1F006ACH	3/6	K1H014ULH	3/15
K1B011UCH	3/15	K1C525B	4/10	K1D031BL	4/11	K1F006ALH	3/6	K1H026M	4/26
K1B011ULH	3/15	K1C526B	4/10	K1D032B	4/11	K1F013M	4/24	K1H026MCH	3/18
K1B022B	4/10	K1C527B	4/11	K1D032BL	4/11	K1F013MCH	3/16	K1H026ML	4/26
K1B022BL	4/10	K1D002UCH	3/15	K1D032RZ2	5/6	K1F013ML	4/24	K1H026MLH	3/18
K1B022BX	4/10	K1D002ULH	3/15	K1D032RZ4	5/6	K1F013MLH	3/16	K1H032QZ2	5/4
K1B023B	4/10	K1D002UZ2	5/7	K1D033M	4/25	K1F013MX	4/24	K1H032QZ4	5/4
K1B023BL	4/10	K1D002UZ4	5/7	K1D033MCH	3/18	K1F013NCH	3/12	K1H036M	4/26
K1B023BX	4/10	K1D004ACH	3/6	K1D033ML	4/25	K1F013NLH	3/12	K1H036MCH	3/18
K1B502B	4/9	K1D004ALH	3/6	K1D033MLH	3/18	K1F013N2	5/2	K1H036ML	4/26
K1B503B	4/9	K1D004HCH	3/6	K1D034M	4/25	K1F013N4	5/2	K1H036MLH	3/18
K1B522B	4/10	K1D004HLH	3/6	K1D034MCH	3/19	K1F013QCH	3/11	K1H504M	4/24
K1B523B	4/10	K1D004NCH	3/10	K1D034ML	4/25	K1F013QLH	3/11	K1H514M	4/24
K1B1002HCH	3/6	K1D004NLH	3/10	K1D034MLH	3/19	K1F013UCH	3/15	K1H526M	4/26
K1B1002HLH	3/6	K1D004QCH	3/9	K1D508B	4/9	K1F013ULH	3/15	K1H536M	4/26
K1C003ACH	3/6	K1D004QLH	3/9	K1D509B	4/10	K1F022NCH	3/14	K1I023NCH	3/14
K1C003ALH	3/6	K1D008B	4/9	K1D510B	4/10	K1F022NLH	3/14	K1I023NLH	3/14
K1C003HCH	3/6	K1D008BL	4/9	K1D511B	4/10	K1F022QCH	3/13	K1I023QCH	3/13
K1C003HLH	3/6	K1D008BX	4/9	K1D523M	4/25	K1F022QLH	3/13	K1I023QLH	3/13
K1C003NCH	3/10	K1D009B	4/10	K1D524M	4/25	K1F022QZ2	5/4	K1I9289Z1	5/6
K1C003NLH	3/10	K1D009BL	4/10	K1D528B	4/11	K1F022QZ4	5/4	K1K015NCH	3/12



K1K015NLH	3/12	K2D004QCH	3/9	K2K015NCH	3/12	K50A001AP	7/3	K150C503HP	7/4
K1K015NZ2	5/5	K2D004QLH	3/9	K2K015NLH	3/12	K50B001UP	7/5	K150D002WP	7/7
K1K015NZ4	5/5	K2D012NCH	3/12	K2K015QCH	3/11	K50B002AP	7/3	K150D004AP	7/3
K1K015QCH	3/11	K2D012NLH	3/12	K2K015QLH	3/11	K50C003AP	7/3	K150D004HP	7/4
K1K015QLH	3/11	K2D012QCH	3/11	K2K504Y	4/30	K50C003HP	7/4	K150D504HP	7/4
K1K1060Z1	5/5	K2D012QLH	3/11	K2K506Y	4/30	K50C503HP	7/4	K150E003WP	7/7
K1I023NZ2	5/2	K2D012UCH	3/15	K2M007Y	4/31	K50D002UP	7/5	K150F003UP	7/5
K1I023NZ4	5/2	K2D012ULH	3/15	K2M007YL	4/31	K50D002WP	7/7	K150F013UP	7/5
K1M10317Z1	5/5	K2E005ACH	3/6	K2M507Y	4/31	K50D004AP	7/3	K150H001YP	7/6
K1Q034NZ2	5/3	K2E005ALH	3/6	K10A001ACH	2/3	K50D004HP	7/4	K150H004UP	7/5
K1Q034NZ4	5/3	K2E005NCH	3/10	K10B001UCH	2/6	K50D504HP	7/4	K150H014UP	7/5
K1Q8621Z1	5/3	K2E005NLH	3/10	K10B002ACH	2/3	K50E003WP	7/7	K150K006YP	7/6
K1Q10805Z1	5/7	K2E005QCH	3/9	K10B002QCH	2/3	K50F003UP	7/5	KA1A050G	6/2
K2A001ACH	3/6	K2E005QLH	3/9	K10B006TCH	2/5	K50F006AP	7/3	KA1C051G	6/2
K2A001ALH	3/6	K2F003UCH	3/15	K10B011UCH	2/6	K50F013UP	7/5	KA1D052G	6/2
K2A001TCH	3/7	K2F003ULH	3/15	K10C003ACH	2/3	K50H001YP	7/6	KA1D053G	6/2
K2A001TLH	3/7	K2F006ACH	3/6	K10C003NCH	2/4	K50H004PP	7/7	KA1E054G	6/2
K2A002TCH	3/7	K2F006ALH	3/6	K10C003QCH	2/3	K50H004UP	7/5	KA1F056G	6/2
K2A002TLH	3/7	K2F013NCH	3/12	K10D002UCH	2/6	K50H014UP	7/5	KA1F057G	6/2
K2B001UCH	3/15	K2F013NLH	3/12	K10D004ACH	2/3	K50K006YP	7/6	KA1G055G	6/2
K2B001ULH	3/15	K2F013QCH	3/11	K10D004NCH	2/4	K63C003AP	7/3	KA1G058G	6/2
K2B002ACH	3/6	K2F013QLH	3/11	K10D004QCH	2/3	K63C003HP	7/4	KA1G059G	6/2
K2B002ALH	3/6	K2F013UCH	3/15	K10D012QCH	2/4	K63C503HP	7/4	KA1H060G	6/2
K2B002NCH	3/10	K2F013ULH	3/15	K10D012UCH	2/6	K63D002WP	7/7	KA1I061G	6/2
K2B002NLH	3/10	K2F022NCH	3/14	K10D024MCH	2/7	K63D004AP	7/3	KA1K062G	6/2
K2B002QCH	3/9	K2F022NLH	3/14	K10F003MCH	2/7	K63D004HP	7/4	KA1K063G	6/2
K2B002QLH	3/9	K2F022QCH	3/13	K10F003UCH	2/6	K63D504HP	7/4	KA2A050G	6/2
K2B003TCH	3/8	K2F022QLH	3/13	K10F013NCH	2/5	K63E003WP	7/7	KA2C051G	6/2
K2B003TLH	3/8	K2G003Y	4/30	K10F013QCH	2/4	K63F003UP	7/5	KA2D052G	6/2
K2B004TCH	3/8	K2G003YL	4/30	K10F013UCH	2/6	K63F006AP	7/3	KA2D053G	6/2
K2B004TLH	3/8	K2G003YX	4/30	K10F027MCH	2/7	K63F013UP	7/5	KA2E054G	6/2
K2B006TCH	3/15	K2G503Y	4/30	K10H004UCH	2/6	K63H001YP	7/6	KA2F056G	6/2
K2B006TLH	3/15	K2H001Y	4/30	K10H014UCH	2/6	K63H004PP	7/7	KA2F057G	6/2
K2B011UCH	3/15	K2H001YL	4/30	K30A001AP	7/3	K63H004UP	7/5	KA2G055G	6/2
K2B011ULH	3/15	K2H001YX	4/30	K30B001UP	7/5	K63H014UP	7/5	KA2G058G	6/2
K2B1002HCH	3/6	K2H004UCH	3/15	K30B002AP	7/3	K63K006YP	7/6	KA2G059G	6/2
K2B1002HLH	3/6	K2H004ULH	3/15	K30C003AP	7/3	K115C003AP	7/3	KA2H060G	6/2
K2C003ACH	3/6	K2H014NCH	3/12	K30C003HP	7/4	K115C003HP	7/4	KA2I061G	6/2
K2C003ALH	3/6	K2H014NLH	3/12	K30C503HP	7/4	K115C503HP	7/4	KA2K062G	6/2
K2C003HCH	3/6	K2H014QCH	3/11	K30D002UP	7/5	K115D002WP	7/7	KA2K063G	6/2
K2C003HLH	3/6	K2H014QLH	3/11	K30D002WP	7/7	K115D004AP	7/3	KAA1H	4/35
K2C003NCH	3/10	K2H014UCH	3/15	K30D004AP	7/3	K115D004HP	7/4	KAA1S	4/35
K2C003NLH	3/10	K2H014ULH	3/15	K30D004HP	7/4	K115D504HP	7/4	KAA1Z	4/35
K2C003QCH	3/9	K2H501Y	4/30	K30D504HP	7/4	K115E003WP	7/7	KAA2H	4/35
K2C003QLH	3/9	K2I023NCH	3/14	K30E003WP	7/7	K115F003UP	7/5	KAC1H	4/34
K2D002UCH	3/15	K2I023NLH	3/14	K30F003UP	7/5	K115F013UP	7/5	KAC1H41	4/34
K2D002ULH	3/15	K2I023QCH	3/13	K30F006AP	7/3	K115H001YP	7/6	KAC1H48	4/34
K2D004ACH	3/6	K2I023QLH	3/13	K30F013UP	7/5	K115H004UP	7/5	KAC1H61	4/34
K2D004ALH	3/6	K2K004Y	4/30	K30H001YP	7/6	K115H014UP	7/5	KAC1S	4/34
K2D004HCH	3/6	K2K004YL	4/30	K30H004PP	7/7	K115K006YP	7/6	KAC1Z	4/34
K2D004HLH	3/6	K2K004YX	4/30	K30H004UP	7/5	K150B001UP	7/5	KAD1H	4/34
K2D004NCH	3/10	K2K006Y	4/30	K30H014UP	7/5	K150C003AP	7/3	KAD1S	4/35
K2D004NLH	3/10	K2K006YL	4/30	K30K006YP	7/6	K150C003HP	7/4	KAD1Z	4/35

KAE1H	4/35	KD2F056G	6/3	K●B002GL	4/12	K●C003QX	4/14	K●D012U	4/7
KAF1H	4/35	KD2F057G	6/3	K●B002GX	4/12	K●C007T	4/8	K●D012UL	4/7
KAG3H	4/34	KD2G055G	6/3	K●B002N	4/16	K●C007TL	4/8	K●D012UX	4/7
KAXZ1C12	4/35	KD2G058G	6/3	K●B002NL	4/16	K●C023H	4/3	K●D022W	4/29
KAXZ1C14	4/35	KD2G059G	6/3	K●B002NX	4/16	K●C023HL	4/3	K●D022WL	4/29
KAXZ1M12	4/35	KD2H060G	6/3	K●B002Q	4/14	K●C023HX	4/3	K●D022WX	4/29
KAXZ1M14	4/35	KD2I061G	6/3	K●B002QL	4/14	K●C502D	4/8	K●D024H	4/3
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KAXZ1S14●	4/35	KD2K063G	6/3	K●B003T	4/4	K●C503A	4/2	K●D024HX	4/3
KAXZ1S16●	4/35	KDC1H	4/34	K●B003TL	4/4	K●C503G	4/12	K●D502S	4/28
KAXZ1S19●	4/35	KDC1LH	4/34	K●B004T	4/5	K●C503H	4/3	K●D502U	4/6
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KBA1S	4/35	KDC1Z	4/34	K●B006T	4/8	K●C503Q	4/14	K●D503L	4/27
KBA1Z	4/35	KDD1H	4/34	K●B006TL	4/8	K●C507T	4/8	K●D504A	4/2
KBC1H	4/34	KDD1S	4/35	K●B006TX	4/8	K●C523H	4/3	K●D504G	4/12
KBC1H41	4/34	KDD1Z	4/35	K●B011U	4/7	K●D002S	4/28	K●D504H	4/3
KBC1H48	4/34	KDE1H	4/35	K●B011UL	4/7	K●D002SL	4/28	K●D504N	4/16
KBC1H61	4/34	KDE1LH	4/35	K●B011UX	4/7	K●D002SX	4/28	K●D504Q	4/14
KBC1S	4/34	KDF1H	4/35	K●B501D	4/5	K●D002U	4/6	K●D505T	4/5
KBC1Z	4/34	KDG3H	4/34	K●B501S	4/28	K●D002UL	4/6	K●D512G	4/12
KBD1H	4/34	KDG3Y	4/34	K●B501U	4/6	K●D002UX	4/6	K●D512N	4/19
KBD1S	4/35	K●A001A	4/2	K●B501U	4/8	K●D002W	4/29	K●D512Q	4/18
KBD1Z	4/35	K●A001A	4/4	K●B502A	4/2	K●D002WL	4/29	K●D512U	4/7
KBE1H	4/35	K●A001AL	4/2	K●B502G	4/12	K●D002WX	4/29	K●D522W	4/29
KBF1H	4/35	K●A001AL	4/4	K●B502N	4/16	K●D003L	4/27	K●D524H	4/3
KBG3H	4/34	K●A001AX	4/2	K●B502Q	4/14	K●D003LL	4/27	K●E003W	4/29
KCC1LH	4/34	K●A001AX	4/4	K●B503T	4/4	K●D003LX	4/27	K●E003WL	4/29
KCC1Y	4/34	K●A001T	4/4	K●B504T	4/5	K●D004A	4/2	K●E003WX	4/29
KCD1MH	4/34	K●A001TL	4/4	K●B506T	4/8	K●D004AL	4/2	K●E005A	4/2
KCE1LH	4/35	K●A001TX	4/4	K●B511U	4/7	K●D004AX	4/2	K●E005AL	4/2
KCE1Y	4/35	K●A002T	4/4	K●B1002H	4/3	K●D004G	4/12	K●E005AX	4/2
KCF1MH	4/35	K●A002TL	4/4	K●B1002HL	4/3	K●D004GL	4/12	K●E005H	4/3
KCG3H	4/34	K●A002TX	4/4	K●B1002HX	4/3	K●D004GX	4/12	K●E005HL	4/3
KCG3Y	4/34	K●A501A	4/2	K●C002D	4/8	K●D004H	4/3	K●E005HX	4/3
KD1A050G	6/3	K●A501A	4/4	K●C002DL	4/8	K●D004HL	4/3	K●E005N	4/16
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KD1D052G	6/3	K●A502T	4/4	K●C002L	4/27	K●D004N	4/16	K●E005NX	4/16
KD1D053G	6/3	K●B001D	4/5	K●C002LL	4/27	K●D004NL	4/16	K●E005Q	4/14
KD1E054G	6/3	K●B001DL	4/5	K●C002LX	4/27	K●D004NX(2)	4/16	K●E005QL	4/14
KD1F056G	6/3	K●B001DX	4/5	K●C003A	4/2	K●D004Q	4/14	K●E005QX	4/14
KD1F057G	6/3	K●B001S	4/28	K●C003AL	4/2	K●D004QL	4/14	K●E023W	4/29
KD1G055G	6/3	K●B001SL	4/28	K●C003AX	4/2	K●D004QX	4/14	K●E023WL	4/29
KD1G058G	6/3	K●B001SX	4/28	K●C003G	4/12	K●D005T	4/5	K●E023WX	4/29
KD1G059G	6/3	K●B001U	4/6	K●C003GL	4/12	K●D005TL	4/5	K●E025H	4/3
KD1H060G	6/3	K●B001U	4/8	K●C003GX	4/12	K●D012G	4/12	K●E025HL	4/3
KD1I061G	6/3	K●B001UL	4/6	K●C003H	4/3	K●D012GL	4/12	K●E503W	4/29
KD1K062G	6/3	K●B001UL	4/8	K●C003HL	4/3	K●D012GX	4/12	K●E505A	4/2
KD1K063G	6/3	K●B001UX	4/6	K●C003HX	4/3	K●D012N	4/19	K●E505H	4/3
KD2A050G	6/3	K●B001UX	4/8	K●C003N	4/16	K●D012NL	4/19	K●E505N	4/16
KD2C051G	6/3	K●B002A	4/2	K●C003NL	4/16	K●D012NX	4/19	K●E505Q	4/14
KD2D052G	6/3	K●B002AL	4/2	K●C003NX	4/16	K●D012Q	4/18	K●E523W	4/29
KD2D053G	6/3	K●B002AX	4/2	K●C003Q	4/14	K●D012QL	4/18	K●E525H	4/3
KD2E054G	6/3	K●B002G	4/12	K●C003QL	4/14	K●D012QX	4/18	K●F001P	4/31

KoF001PL	4/31	KoF506A	4/2	KoH014QL	4/18	KoK008P	4/32	KoM023L	4/27
KoF001PX	4/31	KoF506H	4/3	KoH014QX	4/18	KoK008PL	4/32	KoM023LL	4/27
KoF002P	4/31	KoF506N	4/16	KoH014U	4/7	KoK010N	4/17	KoM024G	4/13
KoF002PL	4/31	KoF506Q	4/14	KoH014UL	4/7	KoK010NL	4/17	KoM024GL	4/13
KoF002PX	4/31	KoF512L	4/27	KoH014UX	4/7	KoK010NX	4/17	KoM024GX	4/13
KoF003S	4/28	KoF513G	4/12	KoH032N	4/23	KoK010Q	4/15	KoM024N	4/21
KoF003SL	4/28	KoF513N	4/19	KoH032NL	4/23	KoK010QL	4/15	KoM024NL	4/21
KoF003SX	4/28	KoF513Q	4/18	KoH032NX	4/23	KoK010QX	4/15	KoM024NX	4/21
KoF003U	4/6	KoF513U	4/7	KoH032Q	4/22	KoK015N	4/19	KoM024Q	4/20
KoF003UL	4/6	KoF522G	4/13	KoH032QL	4/22	KoK015NL	4/19	KoM024QL	4/20
KoF003UX	4/6	KoF522N	4/21	KoH032QX	4/22	KoK015NX	4/19	KoM024QX	4/20
KoF006A	4/2	KoF522Q	4/20	KoH504P	4/31	KoK015Q	4/18	KoM033N	4/23
KoF006AL	4/2	KoF526H	4/3	KoH504S	4/28	KoK015QL	4/18	KoM033NL	4/23
KoF006AX	4/2	KoG007A	4/2	KoH504U	4/6	KoK015QX	4/18	KoM033Q	4/22
KoF006H	4/3	KoG007AL	4/2	KoH505P	4/32	KoK015U	4/7	KoM033QL	4/22
KoF006HL	4/3	KoG007N	4/16	KoH508A	4/2	KoK015UL	4/7	KoM509P	4/32
KoF006HX	4/3	KoG007NL	4/16	KoH508N	4/16	KoK015UX	4/7	KoM516N	4/19
KoF006N	4/16	KoG007NX	4/16	KoH508Q	4/15	KoK505S	4/28	KoM516Q	4/18
KoF006NL	4/16	KoG007Q	4/14	KoH513L	4/27	KoK505U	4/6	KoM521N	4/17
KoF006NX	4/16	KoG007QL	4/14	KoH514G	4/13	KoK508P	4/32	KoM523L	4/27
KoF006Q	4/14	KoG007QX	4/14	KoH514N	4/19	KoK510N	4/17	KoM524G	4/13
KoF006QL	4/14	KoG507A	4/2	KoH514Q	4/18	KoK510Q	4/15	KoM524N	4/21
KoF006QX	4/14	KoG507N	4/16	KoH514U	4/7	KoK515N	4/19	KoM524Q	4/20
KoF012L	4/27	KoG507Q	4/14	KoH532N	4/23	KoK515Q	4/18	KoM533N	4/23
KoF012LL	4/27	KoH004P	4/31	KoH532Q	4/22	KoK515U	4/7	KoM533Q	4/22
KoF012LX	4/27	KoH004PL	4/31	KoI009N	4/17	KoL010P	4/33	KoP025N	4/21
KoF013G	4/12	KoH004PX	4/31	KoI009NL	4/17	KoL010PL	4/33	KoP025NL	4/21
KoF013GL	4/12	KoH004S	4/28	KoI009NX	4/17	KoL011N	4/17	KoP025NX	4/21
KoF013GX	4/12	KoH004SL	4/28	KoI009Q	4/15	KoL011NL	4/17	KoP025Q	4/20
KoF013N	4/19	KoH004U	4/6	KoI009QL	4/15	KoL011NX	4/17	KoP025QL	4/20
KoF013NL	4/19	KoH004UL	4/6	KoI009QX	4/15	KoL011P	4/33	KoP025QX	4/20
KoF013NX	4/19	KoH004UX	4/6	KoI022L	4/27	KoL011PL	4/33	KoP525N	4/21
KoF013Q	4/18	KoH005P	4/32	KoI022LL	4/27	KoL011Q	4/15	KoP525Q	4/20
KoF013QL	4/18	KoH005PL	4/32	KoI023G	4/13	KoL011QL	4/15	KoQ034N	4/23
KoF013QX	4/18	KoH005PX	4/32	KoI023GL	4/13	KoL011QX	4/15	KoQ034NL	4/23
KoF013U	4/7	KoH008A	4/2	KoI023GX	4/13	KoL012P	4/33	KoQ034Q	4/22
KoF013UL	4/7	KoH008AL	4/2	KoI023N	4/21	KoL012PL	4/33	KoQ034QL	4/22
KoF013UX	4/7	KoH008N	4/16	KoI023NL	4/21	KoL510P	4/33	KoQ534N	4/23
KoF022G	4/13	KoH008NL	4/16	KoI023NX	4/21	KoL511N	4/17	KoQ534Q	4/22
KoF022GL	4/13	KoH008NX	4/16	KoI023Q	4/20	KoL511P	4/33	KoS026N	4/21
KoF022GX	4/13	KoH008Q	4/15	KoI023QL	4/20	KoL511Q	4/15	KoS026NL	4/21
KoF022N	4/21	KoH008QL	4/15	KoI023QX	4/20	KoL512P	4/33	KoS026NX	4/21
KoF022NL	4/21	KoH008QX	4/15	KoI509N	4/17	KoM009P	4/32	KoS026Q	4/20
KoF022NX	4/21	KoH013L	4/27	KoI509Q	4/15	KoM009PL	4/32	KoS026QL	4/20
KoF022Q	4/20	KoH013LL	4/27	KoI522L	4/27	KoM016N	4/19	KoS026QX	4/20
KoF022QL	4/20	KoH013LX	4/27	KoI523G	4/13	KoM016NL	4/19	KoS526N	4/21
KoF022QX	4/20	KoH014G	4/13	KoI523N	4/21	KoM016NX	4/19	KoS526Q	4/20
KoF026H	4/3	KoH014GL	4/13	KoI523Q	4/20	KoM016Q	4/18	KoU035N	4/23
KoF026HL	4/3	KoH014GX	4/13	KoK005S	4/28	KoM016QL	4/18	KoU035NL	4/23
KoF501P	4/31	KoH014N	4/19	KoK005SL	4/28	KoM016QX	4/18	KoU035Q	4/22
KoF502P	4/31	KoH014NL	4/19	KoK005U	4/6	KoM021N	4/17	KoU035QL	4/22
KoF503S	4/28	KoH014NX	4/19	KoK005UL	4/6	KoM021NL	4/17	KoU535N	4/23
KoF503U	4/6	KoH014Q	4/18	KoK005UX	4/6	KoM021NX	4/17	KoU535Q	4/22

KZ1	4/39	KZ18042	4/37	KZ18630L	4/36	XBCY7224	4/38
KZ01R	4/39	KZ18042L	4/36	KZ18631	4/37	XBCY7225	4/38
KZ2	4/39	KZ18043	4/37	KZ18631L	4/36	XBCY7226	4/38
KZ13	4/39	KZ18043L	4/36	KZ18632	4/37	XBCY7227	4/38
KZ14	4/39	KZ18044	4/37	KZ18632L	4/36	XBCY7228	4/38
KZ15	4/39	KZ18044L	4/36	KZ18634	4/37	XBCY7229	4/38
KZ16	4/39	KZ18045	4/37	KZ18634L	4/36	XBCY7230	4/38
KZ17	4/37	KZ18045L	4/36	KZ18635	4/37	XBCY7231	4/38
KZ17L	4/36	KZ18046	4/37	KZ18635L	4/36	XBCY7232	4/38
KZ17X	4/38	KZ18046L	4/36	KZ18637	4/37	XBCY7233	4/38
KZ18	4/37	KZ18047	4/37	KZ18637L	4/36	XBCY7234	4/38
KZ18L	4/36	KZ18047L	4/36	KZ18913	4/37	XBCY7235	4/38
KZ19	4/37	KZ18048	4/37	KZ18913L	4/36	XBCY7236	4/38
KZ19L	4/36	KZ18048L	4/36	KZ18931F	4/37	XBCY7238	4/38
KZ19X	4/38	KZ18061	4/37	KZ18931FL	4/36	XBCY7239	4/38
KZ20	4/37	KZ18061L	4/36	KZ19041	4/37	XBCY7240	4/38
KZ21	4/37	KZ18068	4/37	KZ19041L	4/36	XBCY7241	4/38
KZ22	4/37	KZ18068L	4/36	KZ19093	4/37	XBCY7242	4/38
KZ27	4/40	KZ18091	4/37	KZ19093L	4/36	XBCY7243	4/38
KZ27H	4/40	KZ18091L	4/36	KZ19098F	4/37	XBCY7251	4/38
KZ28	4/40	KZ18093	4/37	KZ19098FL	4/36	XBCY7268	4/38
KZ28H	4/40	KZ18093L	4/36	KZ19910	4/37		
KZ30	4/41	KZ18312	4/37	KZ19910L	4/36	<b>Z</b>	
KZ31	4/41	KZ18312L	4/36	KZ21041	4/37	Z01	4/41
KZ32	4/40	KZ18412	4/37	KZ21048	4/37	Z18	4/41
KZ35	4/41	KZ18412L	4/36	KZ21093	4/37	Z18R	4/41
KZ36	4/41	KZ18413	4/37	KZ21412	4/37	Z18R1	4/41
KZ37	4/41	KZ18413L	4/36	KZ21451	4/37	Z18R15	4/41
KZ38	4/41	KZ18415	4/37	KZ21635	4/37		
KZ39	4/41	KZ18415L	4/36	KZ21637	4/37		
KZ41H	4/40	KZ18416	4/37	KZ21910	4/37		
KZ42H	4/40	KZ18416L	4/36	KZN15	7/7		
KZ50	4/41	KZ18417	4/37	KZN21	7/7		
KZ52	4/41	KZ18417L	4/36	KZN24	7/7		
KZ65	4/41	KZ18418	4/37	KZN103	7/7		
KZ66	4/41	KZ18418L	4/36				
KZ73	4/41	KZ18419	4/37	<b>X</b>			
KZ76	4/39	KZ18419L	4/36	XBCY2211	4/38		
KZ77	4/39	KZ18420	4/37	XBCY2213	4/38		
KZ77N	7/7	KZ18420L	4/36	XBCY2214	4/38		
KZ83	4/40	KZ18421	4/37	XBCY2215	4/38		
KZ91H	4/41	KZ18421L	4/36	XBCY2216	4/38		
KZ93	4/41	KZ18422F	4/37	XBCY2218	4/38		
KZ95	4/41	KZ18422FL	4/36	XBCY2219	4/38		
KZ100N	7/7	KZ18423F	4/37	XBCY2250	4/38		
KZ127	4/40	KZ18423FL	4/36	XBCY7064	4/38		
KZ140	4/40	KZ18434	4/37	XBCY7168	4/38		
KZ141	4/40	KZ18434L	4/36	XBCY7212	4/38		
KZ18032	4/37	KZ18436F	4/37	XBCY7217	4/38		
KZ18032L	4/36	KZ18436FL	4/36	XBCY7220	4/38		
KZ18033L	4/36	KZ18451	4/37	XBCY7221	4/38		
KZ18041	4/37	KZ18451L	4/36	XBCY7222	4/38		
KZ18041L	4/36	KZ18630	4/37	XBCY7223	4/38		

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