



CATALOGUE



THE FL.SERIES RANGE, THE FIRST 12MM /13.5MM PUSH BUTTON IN THE WORLD WITH A FULLY ILLUMINATED LENS.

Available in 12mm and 13.5mm standard mounting hole sizes, a unique high brightness full face illuminated switch and a non-illuminated version as a plug-in replacement for competitor products.

Designed and manufactured in France with IP67 sealing and rugged PA6.6 polyamide construction the FL series has superb tactile feedback and vibrant single or bi-colour multi-LED illumination.

MECHANICAL

ELECTRICAL

Dielectric strength 2500V a.c. Insulation resistance $1G\Omega$ Contact resistance $< 50m\Omega$

LIGHTING

Voltage 5V Current LED 65 mA max

ENVIRONMENTAL

MATERIALS

Ingress protection
Operating temperature range

IP67

-40°C to +85°C

Body PA 6.6 Button PC

Contacts Gold plated nickel
Contacts terminals Gold plated nickel
LED terminals Silver plated nickel

PART NUMBERS

NON-ILLUMINATED

INON-ILLUMINATE	D	
Ø13.5	Ø12	Сар
FL13NN5	FL12NN5	Black
FL13NB5	FL12NB5	Blue
FL13NG5	FL12NG5	Green
FL13NO5	FL12NO5	Orange
FL13NR5	FL12NR5	Red
FL13NW5	FL12NW5	White
FL13NY5	FL12NY5	Yellow

ILLUMINATED

Ø13.5	Ø12	Сар
FL13LB5	FL12LB5	Blue
FL13LG5	FL12LG5	Green
FL13LO5	FL12LO5	Orange
FL13LR5	FL12LR5	Red
FL13LW5	FL12LW5	White
FL13LY5	FL12LY5	Yellow

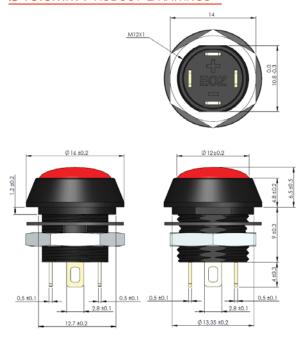
DUAL-COLOR ILLUMINATED

Ø12	Сар	Illumination color
FL12DGB5	Milky white	Green or Blue
FL12DRB5	Milky white	Red or Blue
FL12DRG5	Milky white	Red or Green
	FL12DGB5 FL12DRB5	FL12DGB5 Milky white FL12DRB5 Milky white

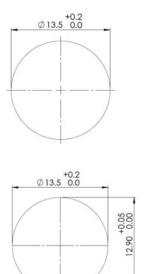
EAO Ltd Highland House Albert Drive Burgess Hill RH15 9TN Tel 01444 236000 sales.euk@eao.com



Ø13.5mm PRODUCT DRAWINGS



PANEL CUT OUT

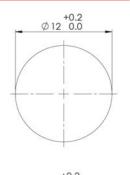


Anti rotation mounting hole

Ø12mm Product Drawings



PANEL CUT OUT





DIAGRAM

1 NO NO NO NO





1K2





COMPONENTS

Recommended for all PCB applications as the most compact changeover switch on the market, the 1K2 is ideal as a jumper replacement.

A standard (red) or extended (black) slide actuator gives instant recognition of switch position.

Electrical life 1 000 operations

- Resistance to wave soldering at 250° C, 5 sec.
- · Choice of straight or right angle PCB mounting
- Saline mist 24 hours, 96 hours (tropicalised version),
- Damp heat 4 days, 21 days (tropicalised version),
- Electrical life 1 000 operations
- · Cursor position

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS						
Nominal Curent	500 mA					
Minimum Curent	1 mA					
Nominal Voltage	12 V					
Maximum Voltage	24 V					
Minimum Voltage	10 mV					
Electrostatic breakdown value	5 kV					
Isolation resistance	≥10000 MΩ at 100Vdc					
Contact resistance	≤22 Ω					
Electrical life	1000 actuations					
Electric strength as per EN IEC 60512-2	250 V _{rms} , 50 Hz, 1 min					

MECHANICAL CHARACTERISTICS

Switching action	Maintained		
Actuating travel	1.6 mm		
Operating temperature	-40°C +85°C		
Shock resistance as per IEC 60512-4-6c	50 g, 11 ms		
Environnemental resistance	Standard «Gold cont.»	Tropical «Gold cont.»	
- Damp heat as per EN IEC 60512-11f	4 days	21 days	
- Saline mist as per EN IEC 60512-11f	24 hours	96 hours	

Manual spot welding guideline

The 1K2 is designed for machine wave flow soldering.

If manual soldering needs to be done, the following guidelines have to be adhered to (in accordance to IEC 60068-2-20):

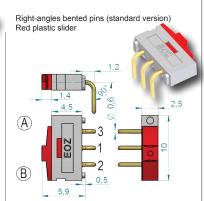
Size of tip of soldering iron: 3mm dia.

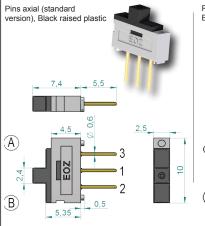
- •Type of solder: Sn/Ag/Cu
- •Soldering temperature: 350°C at 370°C
- •Soldering time: 1s at 5s max
- •In order to avoid overheating, a small break has to be observed between each solder-application
 •The soldering iron has to be kept clean at all times.
- •It is mandatory to tin the tip of the soldering iron before the soldering can take place.
- •When soldering, the tip of the iron has to first pre-heat the «intersection» between pin and circuit, before applying the solder.

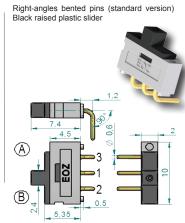
STANDARD PART NUMBERS			
Change-over slide switch 1-pole		Part Numbers	
Pins axial (standard version), plastic black raised slider	-	09.03290.0)1
Pins axial (standard version), plastic red slider		09.03201.0)2
Pins axial (3 mm), plastic black raised slider	09.03	290.01X11	16
Pins axial (3 mm), plastic red slider	09.03	201.02X11	15
Pins axial (tropicalised version), plastic red slider		19.03201.0)1
Pins bent at right-angles (standard version) plastic black raised slid	der (09.10290.0)1
Pins bent at right-angles (standard version) plastic red slider		09.10201.0)2

Further options and information available: www.eozonline.com

DIMENSIONS Pins axial (standard version Red plastic slider 5,9

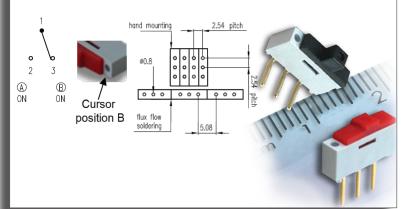






CONNEXIONS

MOUNTING



DJET Ø 6.35 mmToggle Switch and Pushbutton





COMPONENTS

Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle and pushbutton switches are available in one or two pole version available.

Electrical life 100 000 operations

Front panel thickness: Min. 1.2 mm
 Switching system: Positive snap-action

Damp heat: 56 days (Gold contact versions only)

• Tightening torque: Rear nut 125 Ncm Ruffle 30

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS							
			Standar	d «silver cont.»	Tropical «gold cont.»		
Operating:	voltage		10V		10 mV		
	current 50 mA						
Switch rati	ng «Resis	tive circuit	»				
Voltage	220 V	110 V	48 V	24 V	12 V		
Current	1.5A	2.5A	1A	2.25A	4.5A		
Inductive of	circuit: 50	% of abov	ve values				
Isolation re	esistance		≥1000	000 MΩ at	500Vdc		
Contact re	sistance		≤10 m	ηΩ	≤10 mΩ		
Electrical life (actuations) 100 000 100 000							
Electric strength							
2000 Vr	ms, 50 Hz b	etween all t	ninals on the erminals con ninals of adj	nnected toge	ether and ground		

MECHANICAL CHARACTERISTICS						
Storage temperature	-40 °C +85 °C					
Operating temperature	-40°C +85°C					
Protection degree	IP 65					
Shock resistance as per IEC 60512-4	100 g					
Environmental resistance	Standard «silver cont.»	Tropical «gold cont.»				
- Damp heat as per EN IEC 60512-11f	-	56 days				

96 hours

S	TANDARD PART	ΓNL	JMBER	S		
Toggl	e switch Ø6.35mm metal ch	rome	Switching action	contact	Numbers	Technical drawing
•	Standard «silver» contact	#	MA-MA	1	01.17301.21	3
•	Standard «silver» contact	#	MA-MA	2	02.17312.21	2
Pushbutton switch Ø6.35mm metal mat-black						
•	Tropical «gold» contact	#	MA-MO	1	17.17851.30	1
Pushbutton switch Ø6.35mm metal chrome						
•	Standard «silver» contact	#	MA-MO	1	07.17801.21	1
•	Tropical «gold» contact	#	MA-MO	1	17.17851.21	1

Swiching action: MA= Maintained, MO= Momentary

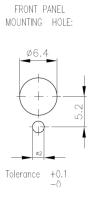
Saline mist as per EN IEC 60512-11f

= Silicone Cap available page 17

Further options and information available: www.eozonline.com



MOUNTING





DJET Ø 10mm

Toggle Switch





COMPONENTS

Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle switches are available in one or two pole version. The switches can be IP 65 with fitted silicone cap or IP 67 front sealed.

Electrical life 100 000 operations

Switching system: positive snap-actionFront panel thickness: Min. 1.2 mm

• Damp heat: 56 days (Gold contact versions only)

• Tightening torque: Rear nut 125 Ncm Ruffle 30

TECHNICAL SPECIFICATIONS

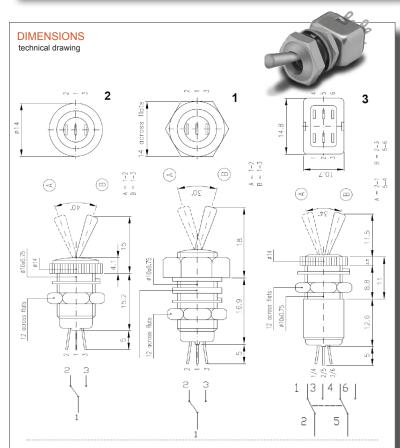
ELECTRICAL SPECIFICATIONS							
	Standard «silver cont.»						
Operating	: voltage _		10V		10 mV		
	current		50 m	A	100 μΑ		
Switch rat	ing «Resis	tive circuit	»				
Voltage	220 V	110 V	48 V	24 V	12 V		
Current	1.5A	2.5A	1A	2.25A	4.5A		
Inductive	circuit: 50 9	% of above	e values				
Isolation re	esistance		≥1000	000 MΩ at	500Vdc		
Contact re	sistance		≤10 m	ηΩ	≤10 mΩ		
Electrical I	100 000						
Electric strength							
2000 V	/rms, 50 Hz l /rms, 50 Hz l /rms, 50 Hz l	between all	terminals co	nnected tog	ether and ground		

MECHANICAL CHARACTERISTICS						
Storage temperature	-40 °C +85 °C					
Operating temperature	-40°C +85°C					
Protection degree	IP 67 (sealed 10 mm dia. version only) IP 65 with protective cap #					
Shock resistance as per IEC 60512-4	100 g					
Environmental resistance	Standard «silver cont.»	Tropical «gold cont.»				
- Damp heat as per EN IEC 60512-11f	-	56 days				
- Saline mist as per EN IEC 60512-11f	-	96 hours				

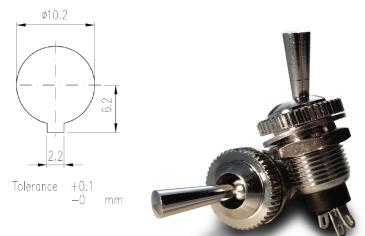
STANDARD PART NUMBERS						
Toggle switch Ø10mm metal mat-black	Switching action	contact	Numbers Technical drawing			
• Tropical «gold» contact, IP67 «front sealing»	MA-MA	1	11.17201.30 1			
Toggle switch Ø10mm metal mat-chrome						
Tropical «gold» contact, IP67 «front sealing»	MA-MA	1	11.17201.22 1			
• Standard «silver» contact, IP67 «front sealing»	MA-MA	1	11.17271.22 1			
Standard «silver» contact, IP67 «front sealing»	MA-MA	2	12.17273.22 3			
Toggle switch Ø10mm metal chrome						
• Tropical «gold» contact	MA-MA	1	11.17051.21 ²			
Tropical «gold» contact #	MA-MA	2	12.17063.21 3			
• Standard «silver» contact	MA-MA	1	01.17001.21 2			
• Standard «silver» contact #	MA-MA	2	02.17013.21 3			

Switching action: MA= Maintained.
= Silicone Cap available page 17

Further options and information available: www.eozonline.com



MOUNTING



secme

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COMPONENTS

Recommended for outdoor applications, military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle switches are available in one or two pole version. The switches can be IP 65 with fitted silicone cap or IP 67 front sealed.

Electrical life 100 000 operations

Switching system: positive snap-action

• Front panel thickness: Min. 1.2 mm

• Damp heat: 56 days (Gold contact versions only)

• Tightening torque: Rear nut 125 Ruffle 30

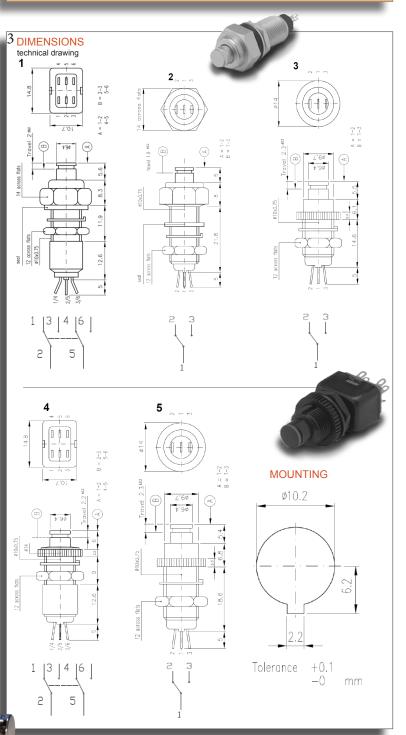
TECHNICAL SPECIFICATIONS

TECHNICAL	_ OI L(711011	O
ELECTRICA	L SPEC	IFICAT	IONS	
		Standar	d «silver cont.»	Tropical «gold cont.»
Operating: voltage		10V		10 mV
current		50 m	4	100 μΑ
Switch rating «Resis	stive circuit	»		
Voltage 220 V	110 V	48 V	24 V	12 V
Current 1.5A	2.5A	1A	2.25A	4.5A
Inductive circuit: 50	% of above	e values		
Isolation resistance		≥1000	000 MΩ at	500Vdc
Contact resistance		≤10 n	ηΩ	≤10 mΩ
Electrical life (actua	tions)	100 0	00	100 000
Electric strength				
1000 Vrms, 50 Hz I 2000 Vrms, 50 Hz I 2000 Vrms, 50 Hz I	oetween all te	erminals cor	nected toge	ther and ground

MECHANICAL CHARA	ACTERISTIC	S
Storage temperature	-40 °C +85 °C	
Operating temperature	-40°C +85°C	
Protection degree	IP 67 (sealed 10 mi	
Shock resistance as per IEC 60512-4	100 g	
Environmental resistance	Standard «silver cont.»	Tropical «gold cont.»
- Damp heat as per EN IEC 60512-11f	-	56 days
- Saline mist as per EN IEC 60512-11f	-	96 hours

STANDARD PART NUME	ERS	3		
Pushbutton Ø10mm metal mat-black	Switching action	contact	Numbers	Technica drawing
• Tropical «gold» contact, IP67 «front sealing»	MO	2	18.17253.30	1
• Tropical «gold» contact, IP67 «front sealing»	MO	1	17.17252.30	2
• Standard «silver» contact, IP67 «front sealing»	MO	1	17.17282.30	2
• Tropical «gold» contact	MO	1	17.17551.30	3
• Tropical «gold» contact	MO	1	17.17552.30	5
• Tropical «gold» contact #	MO	2	18.17563.30	4
Pushbutton Ø10mm metal mat-chrome				
Tropical «gold» contact, IP67 «front sealing»	МО	1	17.17252.22	2
• Standard «silver» contact, IP67 «front sealing»	МО	1	17.17282.22	2
Pushbutton Ø10mm metal chrome				
• Tropical «gold» contact, IP67 «front sealing»	MO	2	18.17253.22	1
• Standard «silver» contact, IP67 «front sealing»	MO	2	18.17283.22	1
• Tropical «gold» contact	МО	1	17.17552.21	5
• Tropical «gold» contact #	MO	2	18.17563.21	4
• Standard «silver» contact	МО	1	07.17502.21	5
• Standard «silver» contact #	MO	2	08.17513.21	4

Swiching action: MO= Momentary
= Silicone Cap available page 17





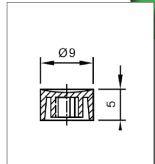
Accessories DJET Toggle Switch and Pushbutton



A10

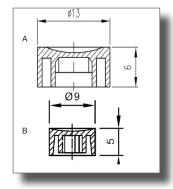


- уре	Front ring	Reference
ap Ø 9 mm	Plastic black	20.17804.01
Гуре	Front ring	Reference



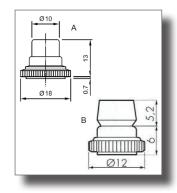


Туре	Front ring	Reference	Drav
Cap Ø 9 mm	Plastic black	20.17504.01	В
Cap Ø 13 mm	Plastic black	20.17254.01	Α
Type	Front ring	Reference	Drav
Турс			
Cap Ø 9 mm	Plastic red	20.17504.02	В



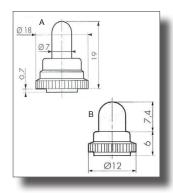


with black silicone cap			
Type	Front ring	Reference	Drav
21		1.0.0.0.0	
Cap for Ø 10 mm	Metal chrome	20.17292.21	Α
Cap for Ø 6.35 mm	Metal chrome	20.25292.21	В
Cap for Ø 6.35 mm	Metal black	20,25292,30	В



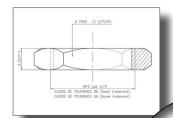


with black silicone cap			
Туре	Front ring	Reference	Drav
Cap Ø for 10 mm	Metal chrome	20.17291.21	Α
Cap Ø for 6.35 mm	Metal chrome	20.25291.21	В
Cap Ø for 6.35 mm	Metal black	20.25291.30	В





Гуре	Front ring	Reference
Ø10 mm	Metal chrome matt	20.17016.21



M.series



B1

3

TECHNICAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS

ELECTRICAL SPECIFICATIONS

Illuminated versions:

Storage temperature

Protection degree

Shock resistance

Actuation force:

Dry heat

- UV resistance

Kev travel:

Operating temperature

Lifetime (actuations/key): Environmental resistance

- Saline mist as per EN IEC 60512-6

- Damp heat (@+40°C) as per EN IEC 60512-6 21 days

(@+85°C) as per EN IEC 60512-6 21 days

Electrostatic breakdown value

Contact resistance

Keypads

Thanks to a 30 year experience in the conception and manufacturing of keypad devices, EOZ has developed the M.series keypad range, designed to operate in varied environments and which can be used in different applications.

Electrical life 1 million actuations for dome version

Electrical life 4 million actuations for membrane version

- Choice available for key shape and dimension
- · Anti-twist keys and anti pull off keys
- · Laser engraving for a high flexibility
- · Standard colours of keys (other colours available):
- Key top: natural (grey), green, red, yellow
- Illumination: yellow and blue (standard)

blue, red, green, yellow and white.

Membrane version: < 200 Ohms 15kV with a metallic front plate

-40°C to +85°C (-30°C for illuminated)

IK 09 for standard versions with a 3mm

1 million actuations 4 million actuation

1.9N +/- 30%

Dome version: < 1 Ohm

-25°C to +85°C

IP 67 (front face)

thick front plate

4.5N +/- 30%

0.5 ±0.3 mm

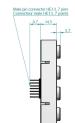
96 Hours

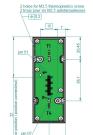
56 days



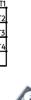
10,92 2x 19,05

10.92 . 3x 19,05





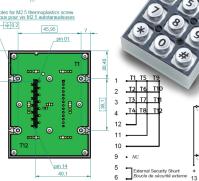


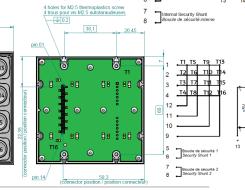


Sorties LED LED Pin-Out

+50

5₹





	STANDARD PART	NUMBERS	S
4	Key version with 1.2.3.4 mark	king Interface	Part numbers
•	Non illuminated membrane	Common point	M04PARSANLPA
•	Non illuminated domes	Common point	M04PARSANSPA
•	Yellow Illuminated membrane	Common point	M04IARSAYLPA
•	Yellow Illuminated domes	Common point	M04IARSAYSPA
12	Key version with Telephone	marking	
•	Non illuminated membrane	Matrix	M12PARSANLMT
	Non illuminated domes	Matrix	M12PARSANSMT
	Yellow illuminated membrane	Matrix	M12IARSAYLMT
•	Yellow illuminated domes	Matrix	M12IARSAYSMT
	Blue illuminated membrane	Matrix	M12IARSABLMT
	Blue illuminated domes	Matrix	M12IARSABSMT
16	Key version with Hexadecin	nal marking	
	Non illuminated membrane	Matrix	M16PARSANLMH
	Non illuminated domes	Matrix	M16PARSANSMH
	Yellow illuminated membrane	Matrix	M16IARSAYLMH
	Yellow illuminated domes	Matrix	M16IARSAYSMH
	Blue illuminated membrane	Matrix	M16IARSABLMH
	Blue illuminated domes	Matrix	M16IARSABSMH
16	Key version with marking B	anking	
	Non illuminated membrane	Matrix	M16PARSANLMB
	Non illuminated domes	Matrix	M16PARSANSMB
M	ounting element		
•	Bracket		FIX.M001

Further options and information available: www.eozonline.com

MOUNTING

The keypads can be mounted from the rear, with different options possible:

- Brackets: 2 mounting clips made of ABS polycarbo-
- 4 holes in the back of the housing of the keypad for customised integration

Tightening torque: 50 Ncm ±5 Ncm (screws for thermoplastic)

Standard colors: Natural aluminium red, yellow and green

Specific colors on request: blue, orange, anthracite grey....





M.series Axess





Keypads

A low-profile version of the M.series rugged keypad has been added to the range of products offered by EOZ – your solutions partner.

Just 8mm deep, the M.series "Axess" offers the same design flexibility and versatility as it's larger brother, but with a lower behind-panel depth.

Electrical life 1 million actuations

- · Modularity is at the heart of the design
- Colour of LED illumination.
- M.series Axess, a ow-profile keypad offering design flexibility.

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power supply: 5 VDC, 240mA

Illuminated versions:
blue and yellow as standard, red, green, and white on request

Contact resistance Dome version: < 1 Ohm

Electrostatic breakdown value 10kV with a metallic front plate

MECHANICAL CHARACTERISTICS

Storage temperature	-40°C to +85°C (-30°C for illuminated)
Operating temperature	-25°C to +85°C
Protection degree	IP 65 (front face)
Shock resistance	IK 09 for standard versions with a 3mm thick front plate
Actuation force:	4.5N +/- 30%
Key travel:	0.5 ±0.3 mm
Lifetime (actuations/key):	1 million actuations

Environmental resistance

- Damp heat (@+40°C) as per EN IEC 60512-6 21 days

- Saline mist as per EN IEC 60512-6 96 Hours

- Dry heat (@+85°C) as per EN IEC 60512-6 21 days

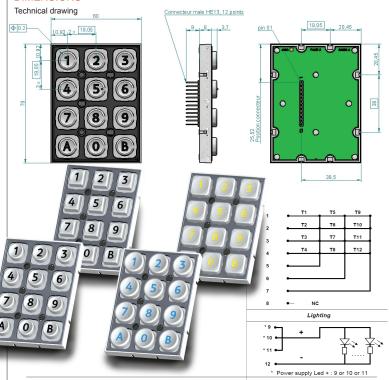
- UV resistance 56 days

STANDARD PART NUMBERS

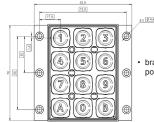
	Shape	Seize	Dimension keys	Part numbers
12 Key Non illuminate	ed version wit	h A and B «Fu	inction» marking	
Non illuminated	Round	Small	Ø 12	AXN12001
 Non illuminated 	Square	Small	11.6 x 11.6	AXN12002
Non illuminated	Round	Big	Ø 15.6	AXN12003
Non illuminated	Square	Big	15 x 15	AXN12004
12 Key YELLOW illum	ninated versio	n A and B «Fu	inction» with markin	ng
Yellow illuminated	Round	Small	Ø 12	AXL12011
Yellow illuminated	Square	Small	11.6 x 11.6	AXL12012
Yellow illuminated	Round	Big	Ø 15.6	AXL12013
Yellow illuminated	Square	Big	15 x 15	AXL12014
12 Key BLEU illumina	ited version w	vith A and B «I	unction» marking	
Blue illuminated	Round	Small	Ø 12	AXL12021
Blue illuminated	Square	Small	11.6 x 11.6	AXL12022
Blue illuminated	Round	Big	Ø 15.6	AXL12023
Blue illuminated	Square	Big	15 x 15	AXL12024
Mounting elemen	t			
Bracket				FIX.AX01

Further options and information available: www.eozonline.com

DIMENSIONS



MOUNTING



bracket: 2 mounting clips made of ABS polycarbonate



TYPE OF STANDARD KEYS

- Standard colors: Natural aluminium, red, yellow and green
- Specific colors on request: blue, orange, anthracite grey....



7 8 9

1 2



B3

Keypads

The 12 or 16 key S.series keypads are specially designed for public environment applications, such as vending machines, ticket machines, payment terminals, telephones, access control systems and industrial machinery.

Electrical life 4 million actuations / key

- The S.series therefore has high resistance to impact and vandalism (IK10) and is also sealed to IP 67
- KEYS: The metal anti pull-off keys are highly resistant to shock and fire.
- MARKING: Customised markings or symbols in different colours are available on request

TECHNICAL SPECIFICATIONS

1 2 3 0

5 V, 5 mA n voltage 24 V
n voltage 24 V
voltage 0.5 V
current 0.1 mA
2.1 V (yellow and green)
1.9 V (red)
3.4 V (blue)
t

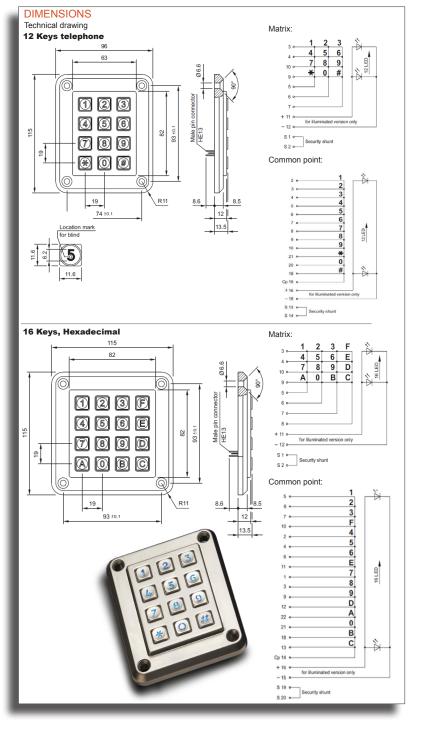
Luminostity and wave length scatter processes may lead to visual different	ring caused by technologie used in the LED manufactering ces in our products
Contact resistance	≤200 Ω
Electrostatic breakdown va	alue 5 kV
leolation registance	>1000 MO at 100 V/DC

1500 Vrms, 50 Hz, 1 min.,

Electric strength as per EN IEC 60512-2

MECHANICAL CHARACTERISTICS		
Storage temperature	-30 °C +85 °C	
Operating temperature	-25°C +85°C	
Protection degree	IP 67 as per IEC 60529, mounted	
Shock resistance	IK 10 (20J)	
Actuation force:	2 N ±1N	
Key travel:	1.5 mm ±0.3 mm	
Lifetime (actuations/key):	4 million actuations	
Rebound time:	≤40 ms	
Environmental resistance		
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days	
- Saline mist as per EN IEC 60512-6	96 Hours	
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days	

STANDARD PART NUMBERS		
12 Keys version with TELEPHONE	marking Circuit	Part numbers
Non Illuminated / Black	Common point «PC»	S.12100.001
Non Illuminated / Black	Matrix «XY»	S.12150.001
Blue Illuminated	Common point «PC»	S.12100.211
Blue Illuminated	Matrix «XY»	S.12150.211
Yellow Illuminated	Common point «PC»	S.12100.241
Yellow Illuminated	Matrix «XY»	S.12150.241
16 Keys version with HEXADECIM	Part numbers	
Non Illuminated / Black	Common point «PC»	S.16300.001
Non Illuminated / Black	Matrix «XY»	S.16350.001
Blue Illuminated	Common point «PC»	S.16300.211
Blue Illuminated	Matrix «XY»	S.16350.211
Yellow Illuminated	Common point «PC»	S.16300.241
Yellow Illuminated	Matrix «XY»	S.16350.241



S.series Lite





Keypads

The S.series Lite looks like a metal keypad, but the keys and housing are crafted from polycarbonate which is known for its incredible strength and high-impact resistance.

It is also protected to IP67 against water, oil and dirt ingress and the metal-look finish is scratch-resistant to ensure long-lasting good

Electrical life 4 million actuations / key

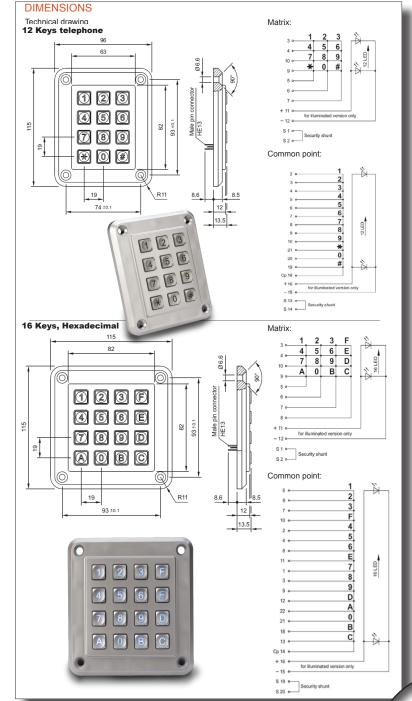
- KEYS: Polycarbonate (PC), metal-look
- MARKING: Precision marking using laser etching and marking.
 Customised markings or symbols on request.

TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		
Power supply:	Nominal 5 V, 5 mA	
	Maximum voltage 24 V	
	Minimum voltage 0.5 V	
	Minimum current 0.1 mA	
Illumination (by LED)	5V (all colours)	
blue and yellow as standard, red, green, and white on request		
Contact resistance	≤200 Ω	
Electrostatic breakdown value	5 kV	
Isolation resistance	≥1000 MΩ at 100 VDC	
Electric strength as per EN IEC 60512-2	1500 Vrms, 50 Hz, 1 min.,	

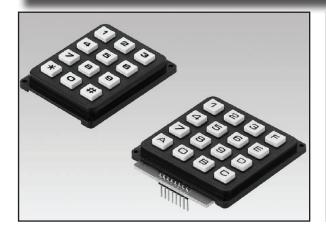
MECHANICAL CHARACTERISTICS		
Storage temperature	-30 °C +85 °C	
Operating temperature	-25°C +85°C	
Protection degree	IP 67 as per IEC 60529, mounted	
Shock resistance	IK 09	
Actuation force:	2 N ±1N	
Key travel:	1.5 mm ±0.3 mm	
Lifetime (actuations/key):	4 million actuations	
Rebound time:	≤40 ms	
Environmental resistance		
- Damp heat (@+40°C) as per EN IEC 60512-6	21 days	
- Saline mist as per EN IEC 60512-6	96 Hours	
- Dry heat (@+85°C) as per EN IEC 60512-6	10 days	

STANDARD PART NUMBERS		
12 Keys version with TELEPHONE ma	arking Circuit	Part numbers
Non Illuminated / Black	Common point «PC»	SL.12100.001
Non Illuminated / Black	Matrix «XY»	SL.12150.001
Blue Illuminated	Common point «PC»	SL.12100.211
Blue Illuminated	Matrix «XY»	SL.12150.211
Yellow Illuminated	Common point «PC»	SL.12100.241
Yellow Illuminated	Matrix «XY»	SL.12150.241
16 Keys version with HEXADECIMAL	Part numbers	
Non Illuminated / Black	Common point «PC»	SL.16300.001
Non Illuminated / Black	Matrix «XY»	SL.16350.001
Blue Illuminated	Common point «PC»	SL.16300.211
Blue Illuminated	Matrix «XY»	SL.16350.211
Yellow Illuminated	Common point «PC»	SL.16300.241
Yellow Illuminated	Matrix «XY»	SL.16350.241



ECO.series





Keypads

The ECO keypads are suited to all indoor applications including data-entry systems, remote controls, telephone, point of sales terminals or alarm systems.

The ECO range of low-cost, flush-mount keypads are rugged, economical devices available in 12-key telephone style and 16-key hexadecimal layouts.

Electrical life1 Million actuations / key

B6

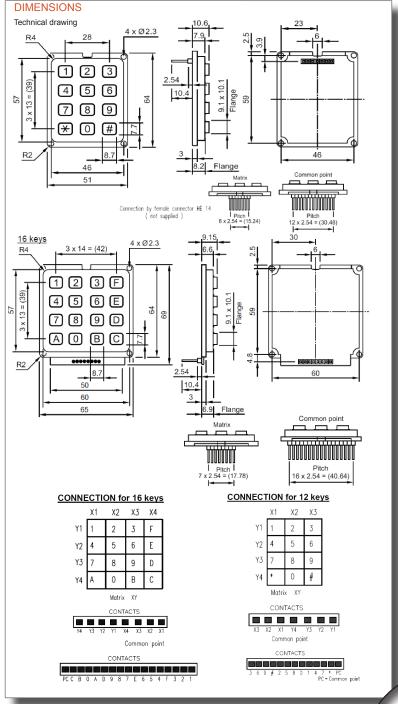
TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		
Power supply:	Nominal 24V, 20 mA	
	Maximum voltage 24 V	
	Minimum voltage 500 mV	
	Minimum current 10 mA	
Contact resistance	≤200 Ω	
Electrostatic breakdown value	5 kV	
Isolation resistance	≥100 0 MΩ at 100 VDC	
Switch rating	0.5 W	

MECHANICAL CHARACTERISTICS		
Storage temperature	-40°C +65°C	
Operating temperature	-20°C +60°C	
Protection degree	IP 40	
Shock resistance	IK 09	
Actuation force:	1.2N ±35%	
Key travel:	1.4 MM ±0.1N	
Lifetime (actuations/key):	1 million actuations	
Rebound time:	≤2 ms	

STANDARD PART NUMBERS		
Packaging of 10 pcs 12 Key version with TELEPHONE marking Common point « PC » Matrix « XY »	Key cap plastic white	Part numbers ECO.12100.06 ECO.12150.06
16 Key version with HEXADECIMAL marking Common point « PC » Matrix « XY »	plastic white	ECO.16200.06 ECO.16250.06





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