Timer Electronic 17,5 mm

KOL

 17.5 mm Multi function Multi time range Multi voltage
 Surface mounting Snap-on DIN rail 35 mm
17.5 x 80 x 70
11, 12, 21, 42, 51, 60
6 ranges 0.05 s up to 10 h
1 contact relay, 250 VAC, 5 A
2448 VDC and 24240 VAC, 50/60 Hz



Preferred Range

Ordering Reference	Characteristics
	■ Multi time range 0.05 s10 h ■ Multi voltage 2448 VDC and 24240 VAC
KOL360H7MRVPN00	Multi functions timer 311/12/21/42
KOL311H7MRVPN00	Delayed operation timer
KOL312H7MRVPN00	Delayed release timer
KOL321H7MRVPN00	Fleeting-on delay timer
KOL342H7MRVPN00	Flasher relay timer
KOL251H7MKVPN00	Star/delta timer

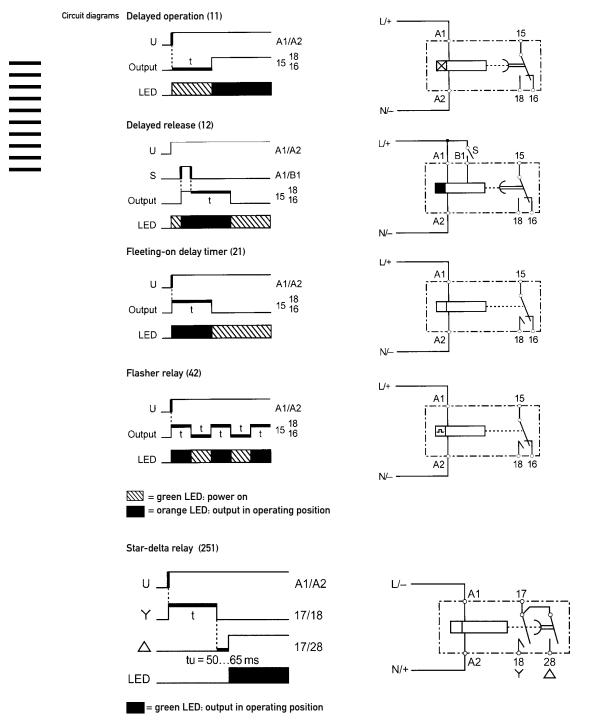
* 11: delayed operation; 12: delayed release; 16: delayed operation and release; 21: fleeting-on delay timer; 22: fleeting-off delay timer; 23: impulse converter; 24: impulse generator; 42: flasher relay; 28: watchdog; 31/70: asymmetrical timer; 51: star-delta timer; 19: power off delayed release

KOL

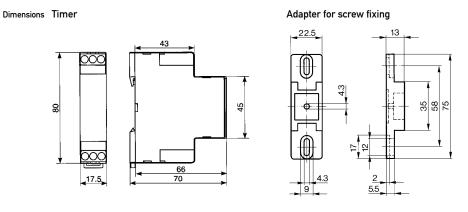
Technical data

Multi time ranges	0.051 s 0.051 min 0.051 h 0.510 s 0.510 min 0.510 h time range and function selectable from front with screwdriver
Setting accuracy	$\pm 5\%$ of the time range final value (t _{max})
Repeat accuracy	1% of the time range final value (t _{max})
Reset time	100 ms
Supply voltage	2448 VDC and 24240 VAC, 50/60 Hz (dual voltage)
Voltage tolerance	-15%/+20% (DC), -15%/+10% (AC)
Power consumption	0.5 W at 24 VDC, 5 VA at 240 VAC
Duty cycle	100%
Pulse control	supply voltage range, current 1 mA, duration of the control pulse >250 ms
Output	1 relay as change-over, LED display of output status
Switching capacity	U = 250 VAC, Ith = 5 A, P = 1000 VA 1 A/250 VAC (AC 14) or 1 A/24 VDC (DC 13) according to IEC
Insulation characteristics	2 kVAC/50 Hz test voltage according to VDE0435 and 4 kV 1.2/50 ms surge voltage according to EN 60947-5-1 between all inputs and outputs
EMC/Interference immunity	surge capacity according to IEC 1000-4-5, level 3; Burst according to IEC 1000-4-4, level 3; ESD according to IEC 1000-4-2, level 3
EMC/Emissions	electromagnetic fields according to EN 55 022, class B
Approvals	UL, C-UL
Ambient temperature	–20°C to +50°C
Connections	screw terminals for 1 x 0.5 mm² up to 2 x 2.5 mm², for Pozidrive no.1 (max.1 Nm) or screwdriver, finger safe according to VDE 0106
Mounting	surface mounting; snap-on mounting on DIN rail 35 mm or screw fixing by adapter (accessory) and 2 screws M4, any mounting position

Technical data



Technical data



Ordering Reference

Туре	KOL	
Function	111	Mono function, 4 time range, delayed operation
	311	Mono function, 6 time range, delayed operation
	112	Mono function, 4 time range, delayed release
	312	Mono function, 6 time range, delayed release
	121	Mono function, 4 time range, Fleeting-on delay timer
	321	Mono function, 6 time range, Flasher relay
	142	Mono function, 4 time range, Flasher relay
	342	Mono function, 6 time range, Flasher relay
	160	Multi function, 4 time range
	360	Multi function, 6 time range
	251	Dual Voltage, 4 time range, Star-delta relay
Housing	H7	6 Terminals
Time ranges	MN	Multi time 0.5 s1 h. for KOL 112. 160
····· y	MN	Multi time 0.75 s1 h. for KOL 111, 121, 142
	MR	Multi time 0.05 s10 h. for KOL3
	MK	Multi time 0.15 s10 min, for KOL251 only
Supply voltage	VP	24240 VAC & 2448 VDC. for KOL3
Supply foldage		
	VM	24 VAC/VDC & 110240 VAC for KOL1
	N00	······································
Accessories	CJ260	Adapter for screw fixing

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 240
 H3AMNSCAC100240
 H3AM-NSR-B AC100-240
 H3CA-8 DC12
 H3CR-A8-302 DC24
 H3CR-F AC24-48/DC12-48
 H3CR-G8EL

 AC200-240
 H5AN-4D DC12-24
 81506944
 88225029
 H5S-YB4-X
 H3CR-A-301 AC100-240/DC100-125
 H3CR-AS AC24-48/DC12-48

 H3DK-GE AC240-440
 H3RN-2 AC24
 H3RN-21 AC24
 H3CR-H8RL AC/DC24 M
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 H3CR-G8EL-31 AC100-120

 H3CR-H8RL AC100-120 M
 H3CR-HRL AC100-120 M
 H3CR-A8-301 AC24-48/DC12-48
 H3CR-H8RL AC/DC24 S
 H7AN-2D DC12-24

 H5CN-XANS DC12-48
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 H7AN-4DM DC12-24
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 H3CA-8H AC200/220/240
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 PO-405
 600DT-CU
 H3Y-2-B DC24

 30S
 PM4HF8-M-DC24V
 PM4HS-H-DC12VSW
 H3Y-2-B AC100-120 10S
 H3Y-2-B AC100-120 30S
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