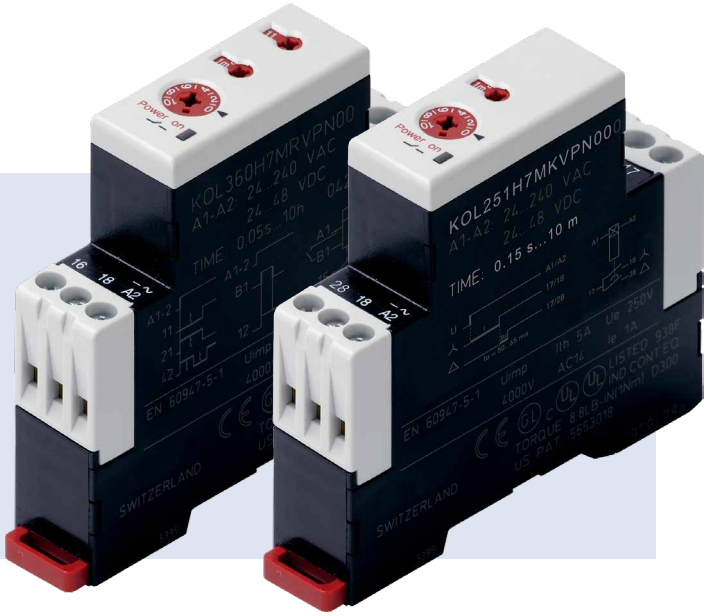
KOL

Timer, electronic

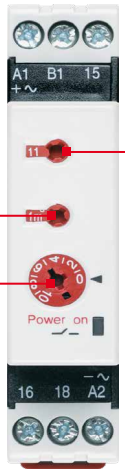
- Multi function or mono function
- 4 (KOL251) or 6 time ranges (KOL 3)
- 17.5 mm width for DIN rail
- 24…48 VDC and 24…240 VAC
- 2 make contacts (KOL251)
- 1 changeover contact (KOL 3)

From left to right: KOL360, KOL311



		KOL 2	KOL 3				
Functions	Delayed operation		•				•
	Delayed release			•			•
	Fleeting-on delay timer				•		•
	Flasher relay					•	•
	Star-delta timer	•					
Time ranges	0.15 s…10 min	•					
	0.05 s… 10 h		•	•	•	•	•
Operating voltage	24…48 VDC and 24…240 VAC	•	•	•	•	•	•
Number of contacts	2 make contacts with a joint connection	•					
	1 changeover contact		•	•	•	•	•
Order no.		KOL251H7MKVPN00	KOL311H7MRVPN00	KOL312H7MRVPN00	KOL321H7MRVPN00	KOL342H7MRVPN00	KOL360H7MRVPN00

Settings



Rough time setting
e.g., 1 m = 1 minute

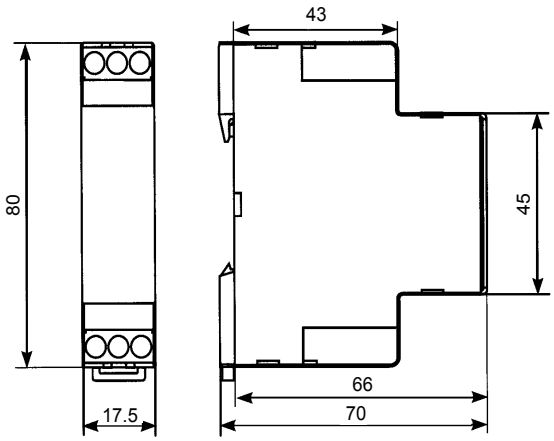
Fine setting time
Divides the value set in the rough setting by a factor of 10
Example: rough setting 1 m = 1 minute
1 unit = 6 s.
If 24 s are necessary,
factor 4 must be set here

Function settings (only with KOL360)
Here you can set the relay function,
e.g.,11 - delayed operation

Technical data

Multi time ranges	KOL251	KOL 3
	0.15…3 s, 0.5…10 s, 3 s…60 s, 0.5…10 min	0.05…1 s, 0.5…10 s, 0.05…1 min, 0.5…10 min, 0.05…1 h, 0.5…10 h
	Time range can be freely selected on the front using a screwdriver	
Setting accuracy	±5 % of the time range final value (t_{max})	
Repeat accuracy	1% of the time range final value (t_{max})	
Reset time	100 ms	
Operating voltage	24…48 VDC and 24…240 VAC, 50/60 Hz ; DC: ±20% AC: –15 %/10 %	
Power consumption	0.5 W at 24 VDC or 5 VA at 250 VAC	
Duty cycle	100 %	
Pulse control	Operating voltage range, current 1 mA, duration of the control pulse >50 ms	
Outputs	2 make contacts (KOL251) or 1 changer (KOL 3)	
Switching capacity	U = 250 VAC, Ith = 5 A, P = 1250 VA	
	1.5 A/250 VAC (AC15) or 1 A/24 VDC (DC13) in accordance with IEC60947-5-1	
Insulation characteristics	2 kV/50 Hz test voltage in accordance with VDE 0435 and 4 kV 1.2/50 µs surge voltage in accordance with IEC60947-5-1 between all inputs and outputs	
EMC/immunity to interference	Surge capacity in accordance with IEC61000-4-5, 4 kV Burst in accordance with IEC61000-4-4, 4 kV ESD in accordance with IEC61000-4-2, 8 kV	
EMC/emissions	Electromagnetic fields in accordance with EN 55 022, class B	
Approvals	UL, C-UL, Germanischer Lloyd	
Ambient temperature	–20 °C to +60 °C	
Connections	Screw terminals for 1 × 0.5 mm² or 2 × 2.5 mm², for Pozidrive no. 1 (max. 1 Nm) or screwdriver. Finger protection in accordance with VDE0106	
Mounting	Snap-on mounting on 35 mm DIN rail according to EN60715TH35	

Dimension diagrams

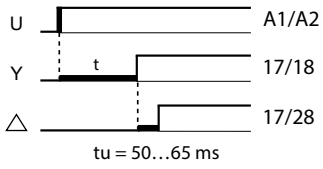


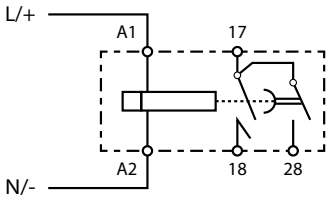
Time diagram and connection diagram

KOL 2 / 3

Star-delta (51)

= LED green:
operating voltage available

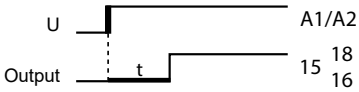


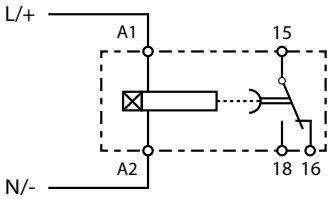


Delayed operation (11)

= LED orange: Output in operating mode

= LED green:
operating voltage available

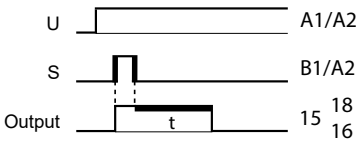


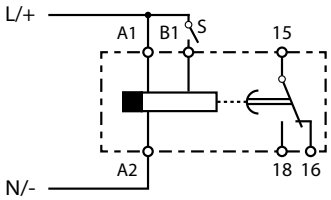


Delayed release (12)

= LED orange: Output in operating mode

= LED green:
operating voltage available

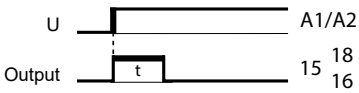


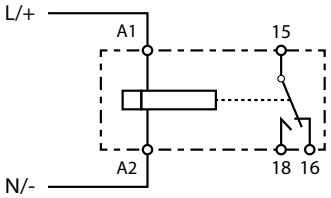


Fleeting-on delay timer (21)

= LED orange: Output in operating mode

= LED green:
operating voltage available

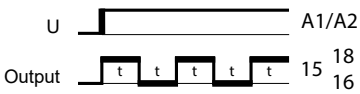


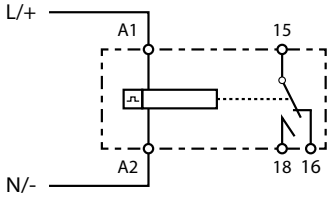


Flasher relay (42)

= LED orange: Output in operating mode

= LED green:
operating voltage available





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