

KOP.J

Timer, electronic

- Multi function or mono function
- 10 time ranges
- 22.5 mm width for DIN rail
- 24...48 VDC and 24...240 VAC
- 24...240 VAC/DC
- 1 changeover contact

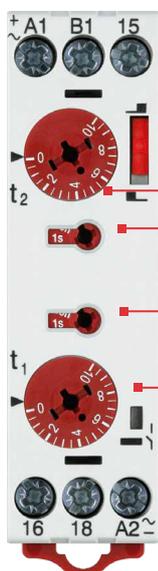


From left to right: KOP111, KOP160, KOP170

		KOP.J							
Functions	Delayed operation								
	Delayed release								
	Delayed operation and release								
	Fleeting-on delay timer								
	Fleeting-off delay timer								
	Pulse converter								
	Pulse generator								
	Flasher relay with pulse starting								
	Asymmetrical pulse generator								
	On/off function for startup and maintenance								
	Watch dog								
Time ranges	0.05 s...60 h								
	0.05 s...1 s								
	0.15 s...3 s								
	0.5 s...10 s								
Operating voltage	24...48 VDC and 24...240 VAC								
	24...240 VDC/VAC								
Number of contacts	1 changeover contact								
Order no.		KOP111J7MMVVPN00	KOP112J7MMVVPN00	KOP128J7BAVVPN00	KOP128J7CAVVPN00	KOP128J7EAVVPN00	KOP160J7MMVVA000	KOP160J7MMVVPN00	KOP170J7MMVVPN00

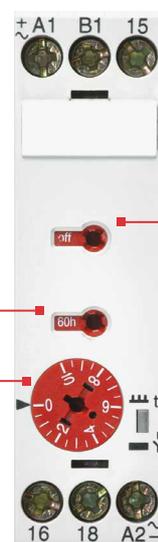
Settings

KOP170



- Start setting with pulses or with interval
- Fine setting T2
- Rough setting T2
e.g., 1 m = 1 minute
- Rough setting T1
- T1 fine setting
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

All except KOP170

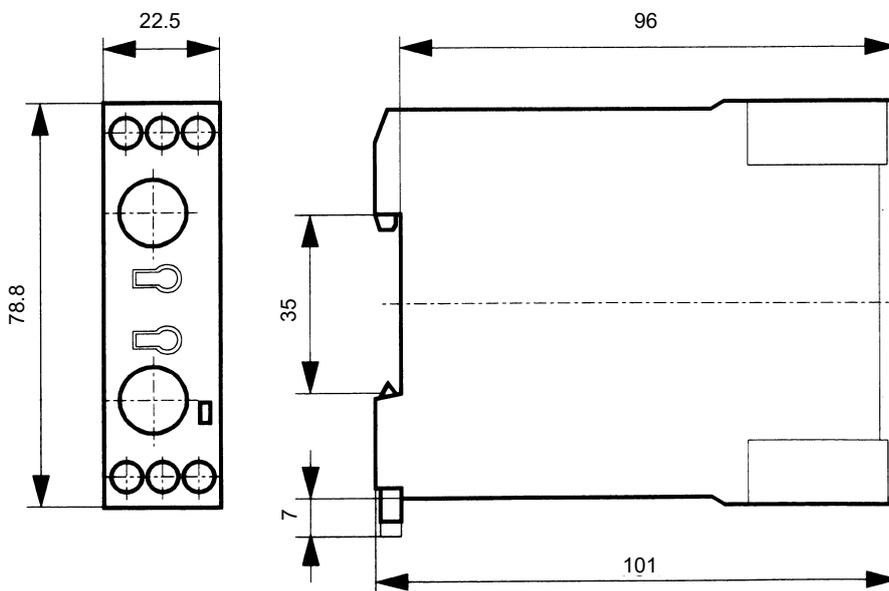


- Function settings (only with KOP160)
Here you can set the relay function, e.g.: 11 - delayed operation
- Rough setting
- Fine setting

Technical data

Multi time ranges	0.05...1 s, 0.15...3 s, 0.5...10 s 0.05...1 min, 0.15...3 min, 0.5...10 min 0.05...1 h, 0.15...3 h, 0.5...10 h, 3...60 h Time range can be easily selected on the front of the relay, using a screwdriver	
Setting accuracy	±5 % of the time range final value (t_{max})	
Repeat accuracy	±0.2% of the set value	
Operating voltage	24...48 VDC and 24...240 VAC, 50/60 Hz (VP) 24...240 VAC/DC, 50/60 Hz (VA) DC: ±20% AC: -15%...+10%	
Power consumption	VP version: 5.0 VA(AC) 0.5 W(DC)	VA version: 3 VA(AC) 3 W(DC)
Duty cycle	100 %	
Pulse control	Operating voltage range, current 1 mA, duration of the control pulse >30 ms (DC), >50 ms (AC); interval >55 ms (DC)	
Outputs	1 changeover contact, status display by LED	
Switching capacity	U = 440 VAC, $I_{th} = 8$ A, P = 2000 VA 3 A/250 VAC (AC15), 3 A/440 VAC (AC14) or 1 A/24 VDC (DC13) in accordance with IEC60947-5-1	
Insulation characteristics	2.5 kVAC/50 Hz test voltage in accordance with VDE 0435 and 6 kV 1.2/50 μ s surge voltage in accordance with IEC60947-5-1 between all outputs and inputs	
EMC/immunity to interference	Surge capacity in accordance with IEC61000-4-5, 4 kV Burst in accordance with IEC61000-4-4, 6 kV ESD in accordance with IEC61000-4-2, with contact 8 kV, in air 8 kV	
Secure disconnection	in accordance with VDE0106, part 101	
Protection class	Housing IP40, terminals IP20	
Approvals	UL, C-UL, GL	
Ambient temperature	Open -20 °C to +60 °C, encapsulated -20 °C to +45 °C	
Connections	Screw terminals for 1×0.5 mm ² or 2×2.5 mm ² (solid wire) or 2×1.5 mm ² (multistrand with end sleeve). AWG 14...20, with two-chamber system, M3.5 screws for Pozidrive no. 2 (Phillips) and slotted head no. 2, suitable for drill/driver (max. 1.2 Nm). Finger protection in accordance with VDE0106	
Mounting	Snap-on mounting on 35 mm rail according to EN60715TH35 or screw mounting by adapter (accessories) and 2 M4 screws. Any mounting position	

Dimension diagrams



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