

KOP.F

Timer, electronic

- Multi voltage, multi functional and multi timer, for front panel mounting and for socket mounting
- DIN dimensions 48 × 48 mm
- 24...230 VDC/VAC
- 1 changeover contact, 2-pole



		KOP.F
Functions	Delayed operation	•
	Delayed operation with pulse control	•
	Fleeting-on delay timer	•
	Pulse converter	•
	Flasher relay with interval starting and with reset	•
	Delayed release	•
Time ranges	0.01 s...100 h	•
Operating voltage	24...230 VDC/VAC	•
Number of contacts	1 changeover contact, 2-pole	•
Order no.		KOP260F0MWWAN00

Settings

Setting the function
Here you can set the function of the relay, e.g.,:
B - fleeting-on delay timer (21)

Time scale factor switch
0.5, 1, 5, 10

Time range switch
s, min, h

Technical data

Multi time ranges	0.01...0.5 s, 0.02...1 s, 0.1...5 s, 0.2...10 s 0.01...0.5 min, 0.02...1 min, 0.1...5 min, 0.2...10 min 0.01...0.5 h, 0.02...1 h, 0.1...5 h, 0.2...10 h, 2...100 h Time range, time unit and function can be selected on the front of the relay, using a screwdriver
Setting accuracy	± 1% of the time range final value (t_{max})
Repeat accuracy	± 1% of the time range final value (t_{max})
Reset time	100 ms with pulse control 300 ms when controlling operating voltage
Operating voltage	24...230 VDC/VAC, ±15 %, 50/60 Hz
Power consumption	1.5 W with DC, 2.5 VA with AC
Duty cycle	100 %
Pulse control	Operating voltage duration, duration of the control pulse >50 ms
Outputs	1 changeover contact, 2-pole, green LED remains lit during timing
Switching capacity	U = 250 VAC, I_{th} = 5 A, P = 1250 VA 2.5 A/250 VAC (AC14), 5 A/24 VDC
Insulation characteristics	2 kVAC/50 Hz test voltage in accordance with VDE 0435 and 4 kV 1.2/50 μ s surge voltage in accordance with EN 60947-5-1 between all outputs and inputs
EMC/immunity to interference	Surge capacity in accordance with IEC61000-4-5, Burst in accordance with IEC61000-4-4ESD in accordance with IEC61000-4-2
EMC/emissions	Electromagnetic fields in accordance with EN 55 022, class B
Protection class	Front IP40
Approvals	UL, C-UL
Ambient temperature	-10 °C to +55 °C
Mounting	Flush mounting with plastic spring clip or surface mounting with 11-pole socket (accessories) for screw mounting with 2 M3 screws or snap-on mounting on 35 mm rail according to EN60715TH35, any mounting position

Accessories

Order no.

■ 11-pole socket (47 × 47 × 20 mm) for flush mounting, connection with screw terminals	CJ211
■ 11-pole socket (46.8 × 46.8 × 20.0 mm) for screw mounting or snap-on mounting on 35 mm rail according to EN60715TH35, Connection with screw terminals	CJ250

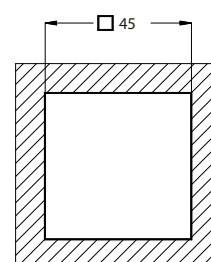
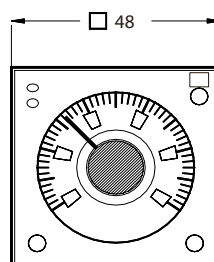
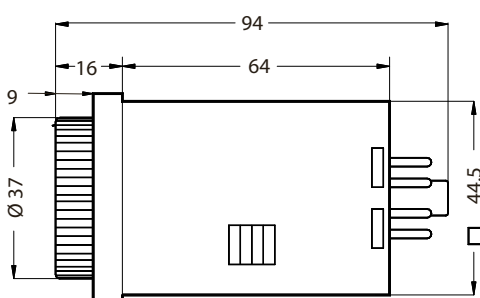


CJ211



CJ250

Dimension diagram

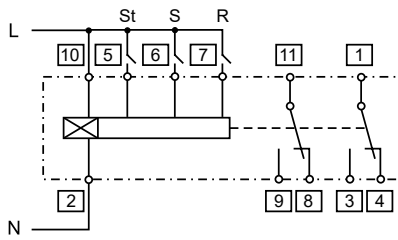


Panel section
45 × 45 mm

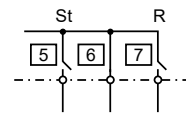
Time diagram and connection diagram

With external Start

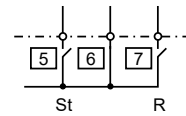
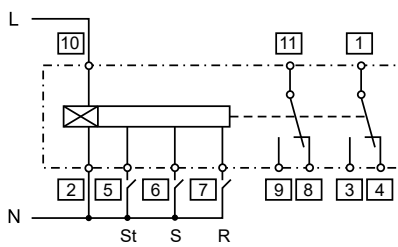
Switched phase



Without external Start

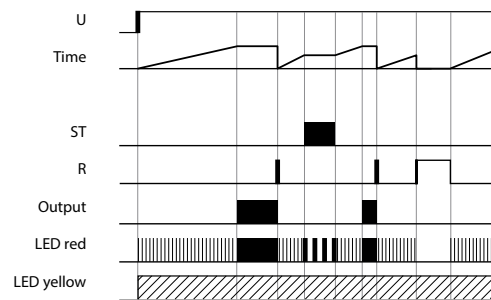
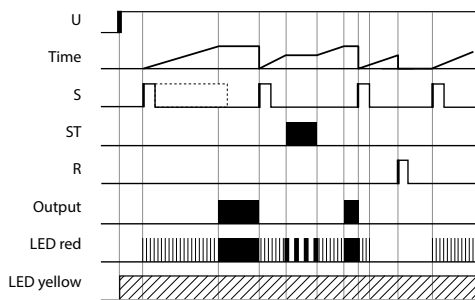


Switched neutral

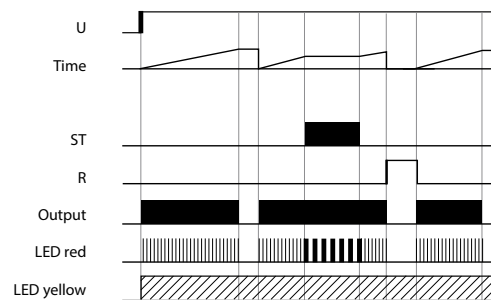
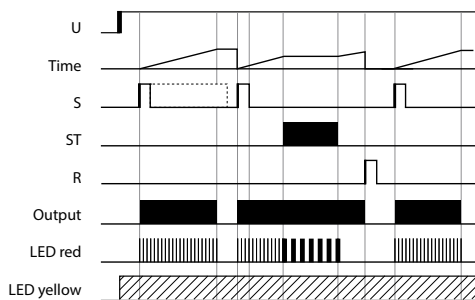


- S = Start contact
- St = Stop contact
- R = Reset contact

Function A: ON delay



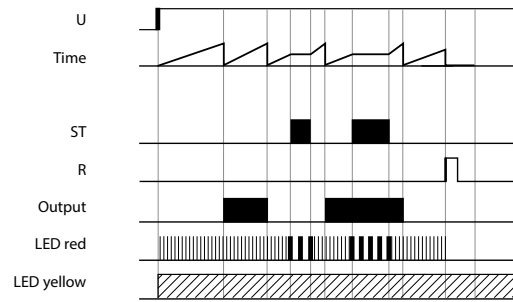
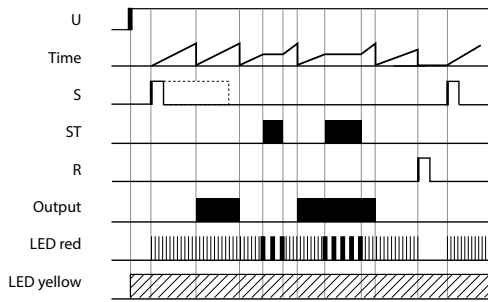
Function B: ON pulse



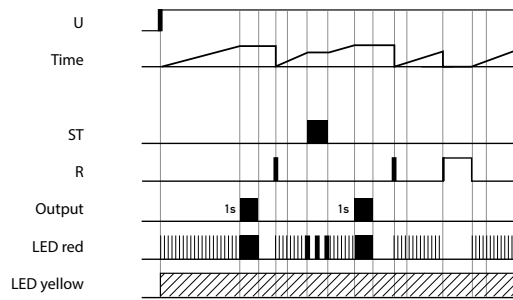
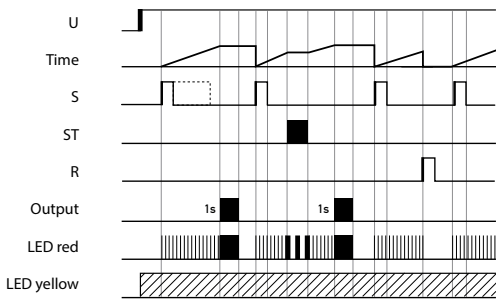
With external Start

Without external Start

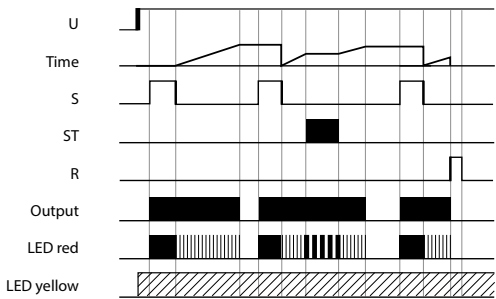
Function C: Symmetrical recycler



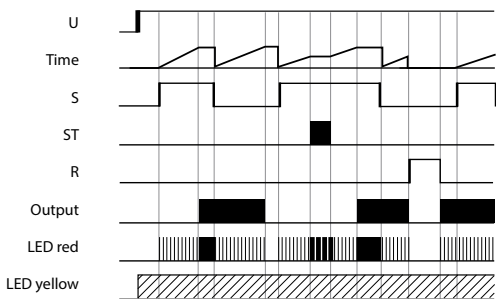
Function E: Fixed pulse delayed



Function D: OFF delay at release of START command



Function F: Signal ON and OFF delay



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