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

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Order no.

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<td>KOL251H7MKVPN00</td>
<td>KOL311H7MKVPN00</td>
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<td>KOL321H7MRVPN00</td>
<td>KOL342H7MRVPN00</td>
<td>KOL360H7MRVPN00</td>
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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

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<th>KOL251</th>
<th>KOL 3</th>
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<tr>
<td>0.15…3 s, 0.5…10 s, 3…60 s, 0.5…10 min</td>
<td>0.05…1 s, 0.5…10 s, 0.05…1 min, 0.5…10 min, 0.05…1 h, 0.5…10 h</td>
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Time range can be freely selected on the front using a screwdriver.

### Setting accuracy

±5 % of the time range final value ($t_{\text{max}}$)

### Repeat accuracy

1 % of the time range final value ($t_{\text{max}}$)

### 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

### Operating voltage range, current 1 mA, duration of the control pulse >50 ms

### Switching capacity

$U = 250$ VAC, $I_{\text{th}} = 5$ 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

### 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

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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