

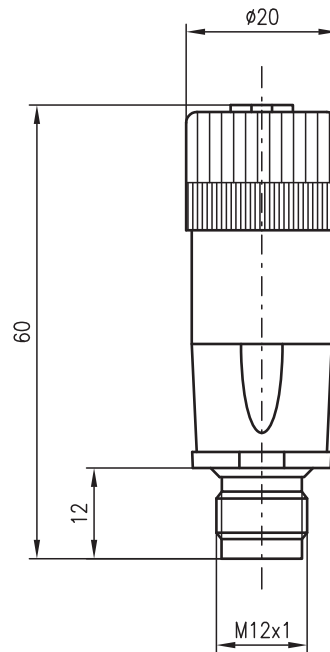
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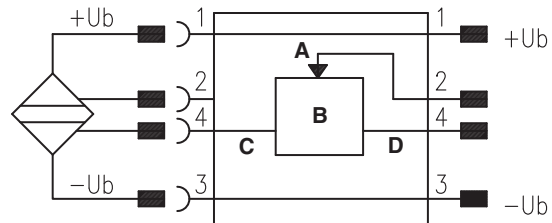
10 - 30 V
DC

- Programmable timer for pickup and drop-out delay
- Direct adaptation between sensor and connecting cable
- Teach-in as turn-on or turn-off delay possible
- Simple setting by means of external teach-in
- No additional installation requirements
- Time range 1 – 65535 ms
- Switching amplifier up to 400mA

Dimensioned drawing

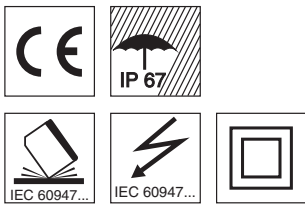


Electrical connection



- A Teaching input
- B Timer
- C Input
- D Output

Accessories:
(available separately)



Änderungen vorbehalten • DS_AccessoryZKT4_en_50115944.fm

Specifications

Timing

Response time 0.1 ms

Electrical data

Operating voltage U_B 10 ... 30VDC (incl. residual ripple)
 Residual ripple $\leq 10\%$ of U_B
 Bias current ≤ 400 mA, short-circuit proof
 Sensor switching output PNP transistor
 Function characteristics pickup delay and dropout delay, setting by means of external teach-in $\geq (U_B - 2V) \leq 2V$ (PNP)
 Signal voltage high/low Max. 400mA, short-circuit proof
 Output current ≤ 10 mA
 Power consumption $\geq 10k\Omega$
 Input resistance ≤ 10 kHz
 Input frequency

Indicators

LED red switching output

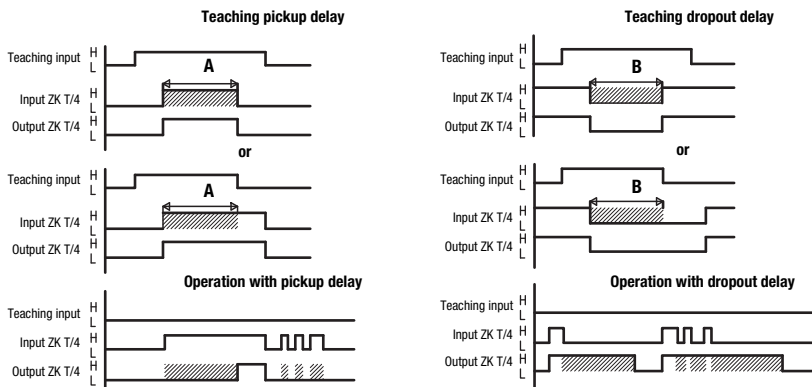
Mechanical data

Housing Plastic, PBTP/PA
 Dimensions $\varnothing 20 \times 60$
 Weight 15g
 Connection type Input - M12 socket, 4-pin
 Output - M12 plug, 4-pin

Environmental data

Ambient temp. (operation/storage) $0^\circ\text{C} \dots +60^\circ\text{C} / -20^\circ\text{C} \dots +60^\circ\text{C}$
 Protection class IP 67
 Safety class II, only with connection at both ends, all-insulated

Teaching pickup and dropout delay



Remarks

Operate in accordance with intended use!

- The product may only be put into operation by competent persons.
- Only use the product in accordance with the intended use.

Setting

- The delay time is set using the "teaching input" and "input" signals. If, for example, a delay time of 4 sec. is required, it can be set in the following way (the operating voltage must be switched on beforehand):

1. Connect teaching input to $+U_B$
2. Actuate sensor for 4 sec.
3. Disconnect teaching input from $+U_B$ - finished!

- Once the setting has been made, the device has a pickup delay of 4 sec. The setting is retained even when the device is switched off.

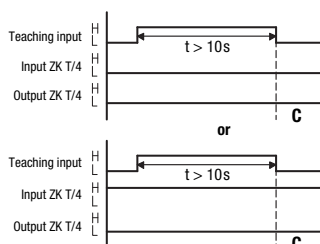
Application notice

Debouncing of the sensor switching output signal:
 -> **Pickup delay**

Pulse stretching of the sensor switching output signal:
 -> **Dropout delay**

Resetting to factory setting:

(100ms dropout delay or 40ms pickup delay)



- A** Teach-in time for pickup delay
- B** Teach-in time for dropout delay
- C** From this point onwards, ZK T/4 is reset to factory setting

- H** Input or output active
- L** Input or output not active

Order guide

Factory setting	Type	Order code
100ms dropout delay	ZK T/4.00-S12	50037113
40ms pickup delay	ZK T/4.01-S12	50037114