

2023/02/22 50115944



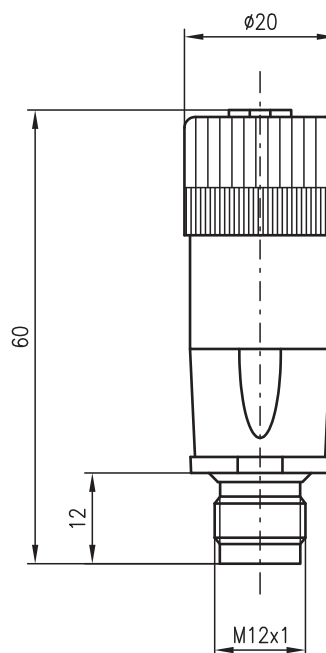
- Programmable timer for pickup and dropout delay
- Direct adaptation between sensor and connecting cable
- Teach-in as turn-on or turn-off delay possible
- Simple setting by means of external teach-in
- No additional installation requirements
- Time range 1 – 65535ms
- Switching amplifier up to 150mA



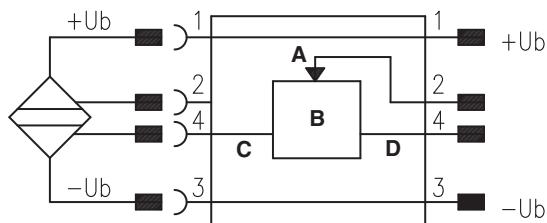
Accessories:
(available separately)

Änderungen vorbehalten

Dimensioned drawing



Electrical connection



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

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 ≤ 150 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)
 Max. 150 mA, short-circuit proof
 Power consumption ≤ 10 mA
 Input resistance ≥ 10 k Ω
 Input frequency ≤ 10 kHz

Signal voltage high/low
 Output current
 Power consumption
 Input resistance
 Input frequency

Indicators

LED red

Mechanical data

Housing Plastic, PBTP/PA
 Dimensions $\varnothing 20 \times 60$
 Weight 15 g
 Input - M 12 socket, 4-pin
 Output - M 12 plug, 4-pin

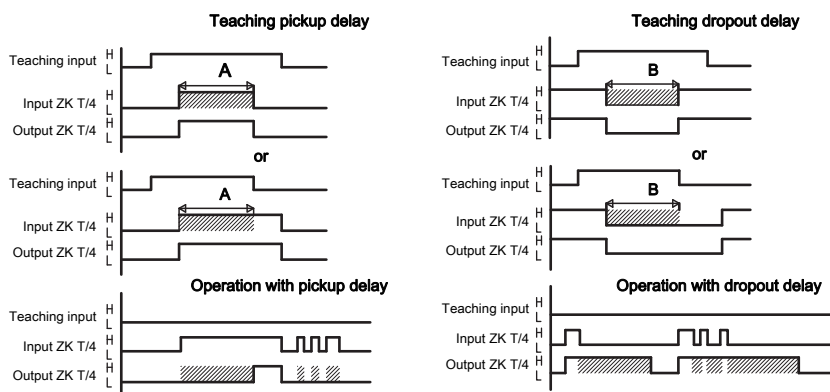
Environmental data

Ambient temp. (operation/storage) 0°C ... +60°C / -20°C ... +60°C
 Protection class IP 67
 Safety class II, only with connection at both ends, all-insulated

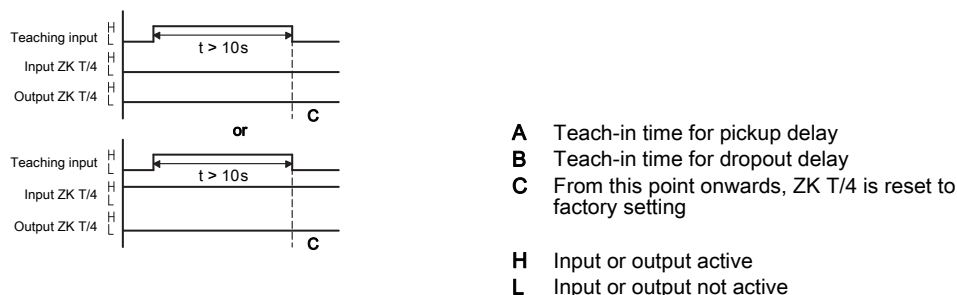
switching output

Plastic, PBTP/PA
 $\varnothing 20 \times 60$
 15 g
 Input - M 12 socket, 4-pin
 Output - M 12 plug, 4-pin

Teaching pickup and dropout delay



Resetting to factory setting:
 (100ms dropout delay or 40ms pickup delay)



Order guide

Factory setting

100ms dropout delay

40ms pickup delay

Type

ZK T/4.00-S12

ZK T/4.01-S12

Order code

50037113

50037114

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

ZK T... may only be used in combination with a proximity switch according to EN 60947-5-2.