VY200120

Counters

Pulse counters

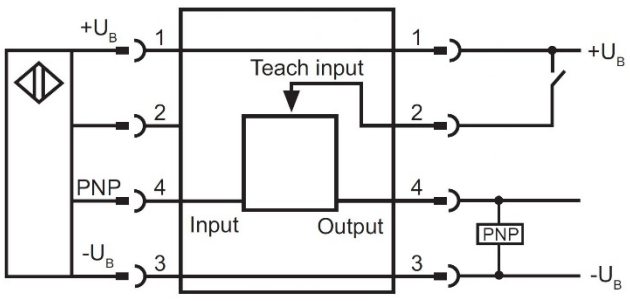
- **programmable timer for on and off delay**
- **direct adaption between sensor and cable socket**
- **factory setting 100ms off delayed**

easy programming via external teach-in
no additional installation necessary

TECHNICAL DATA

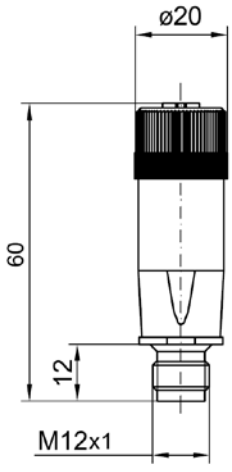
dimensions	Ø20 x 60mm
time range	1 … 65535ms
operating voltage	10 … 30V DC
residual ripple	≤ 10% of U_B
current consumption (w/o load)	< 10mA
input resistance	> 10kΩ
switching output	PNP transistor
output current (max. load)	400mA
short-circuit protection	+
display (function)	LED red
input frequency (pulse:pause = 1:1)	≤ 10kHz
input pulse width	≥ 50µs
temperature (operating)	0 … 60°C
temperature (storage)	-20 … +60°C
degree of protection	IP 67 (EN 60529)
housing	plastic PBTP / PA
connection	M12-socket / M12-connector, 4-pin

Connection



Colors: 1 brown, 2 white, 3 blue, 4 black

Dimensional drawing



Adjustment and programming

On delay:

1. Connect the sensor with the M12-socket of the time module and switch on the operating voltage. The connection can be made by a 4-wire cable socket, e.g. VK200321.
2. Connect the teach input A (PIN 2, white) to $+U_B$ (PIN 1, brown).
3. Activate the sensor. The time the sensor is activated corresponds to the delay at a later time.
4. Release the teach-input from $+U_B$.

Off delay:

1. Connect the sensor with the M12-socket of the time module and switch on the operating voltage. The connection can be made by a 4-wire cable socket, e.g. VK200321.
2. Activate the sensor.
3. Connect the teach input A (PIN 2, white) with $+U_B$ (PIN 1, brown).
4. Disconnect the sensor. The time the sensor is not activated corresponds to the delay at a later time. If you wish an off delay of 4s, disconnect the sensor for 4s and activate it again.
5. Disconnect the teach-input from $+U_B$.

Reset to factory settings: Connect the teach input A (PIN 2, white) for at least 10s to $+U_B$ (PIN 1, brown). During this time the sensors's state must not be changed! The device operates now with an off delay of 100ms.

SAFETY WARNINGS:

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these articles in applications where the safety of a person depends on their functionality.

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