



## Opto-OD

Pulse generator



### Your benefits

- Conversion of an impulse signal to a Namur signal (4 - 20 mA / 0 - 20 mA):  
**High resolution for instantaneous flow rate indication (m<sup>3</sup>/h) in combination with the FM-1D/K**
- Can be retrofitted without damaging the calibration seal:  
**Easy and fast on-site installation**

### Properties

- Two different pulse values available (OD 01 or OD 03)
- Flow direction detection
- Flood proof (IP68)
- Cable length 3 m

### Applications

- Flow direction recognition (forward or backflow) by means of different signal levels
- Pulse transferral for forward and backward totalisation in combination with FM-1D/K
- Pulse output for process measuring, control and dosing functions

## Technical Data

| Manufacturer information  |                        |
|---|------------------------|
| <b>Control element</b>  |                        |
| IR reflex light barrier acc. EN 50227, plug type  |                        |
| <b>Specification</b>  |                        |
| Supply voltage  | 8,2 V DC               |
| Current pick-up with reflection   | < 1,2 mA               |
| Current pick-up without reflection  | > 2,1 mA               |
| Integrated with the sensor, via an additional current level, is the forward and reverse characteristic 1,5 mA |                        |
| <b>Pulse duration</b>   |                        |
| Depending upon flow rate in water meter   |                        |
| Under no flow condition continuous contact possible   |                        |
| <b>Protection class</b>   |                        |
| IP68 (DIN 40050)  |                        |
| <b>Temperature range</b>  |                        |
| Ambient temperature   | t <sub>amb</sub> 70 °C |
| Medium temperature  | t <sub>m</sub> 50 °C   |
| <b>Cable connection</b>   |                        |
| Length  | 3 m                    |

## Pulse values Opto-OD-Pulser

| Meter sizes                           |            | DN 50...125<br>1 Pulse = ...Liter | DN 150... 300<br>1 Pulse = ...Liter |
|---------------------------------------|------------|-----------------------------------|-------------------------------------|
| WSDK, WPDK, Meistream, Meistream Plus | Opto OD 01 | 1                                 | 10                                  |
| WSDK, WPDK, Meistream, Meistream Plus | Opto OD 03 | 10                                | 100                                 |

# Application example with Opto-OD-Pulser

Pulse signals for processing in the management systems or other control and regulation functions.

