

OD

Pulser for cold and hot water meters Dynamic

Main Features

Simple installation

Pulsers can be fitted without breaking the meter seal

OD with forward/reverse identification

Two different pulse values

OD



APPLICATIONS

OD 01 and OD 03	for cold water meters up to 50 °C
OD 02 and OD 04	for hot water meters up to 130 °C
OD 01 and OD 02	for flow indication and flow control
OD 03 and OD 04	for remote counters and batching systems:
OD 02/EX	for explosion hazardous areas
OD 07-L	for data logging
OD 07-24V/S	for direct connection to SPC or remote control systems
OD AM	for connection of heat meterst

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PERFORMANCE DATA

OD 01 ... 04, OD AM		
Sensor principle	IR-reflex light barrier acc. to DIN EN 60947-5-6, plug type	
Specification	supply voltage 8.2 V DC current with reflection < 1.2 mA current without reflection > 2.1 mA forward/reverse identification integrated by an additional current barrier at 1.5 mA	
Pulse duration	OD 01 ... 04: depending on flow in the meter at meter stop continuous pulse possible	OD AM: Closing time 7 ms
Protection	IP 68 (DIN 40050)	
Temperature range	RD 01/03: ambient temperature t_{amb} ≤ 70 °C medium temperature t_m ≤ 50 °C	
	RD 02/04/AM: ambient temperature t_{amb} ≤ 70 °C medium temperature t_m ≤ 150 °C	
Connection cable	Ø 4.1 mm, 2 x 0.14 mm², end splice, length 3 m	

OD 07 24 V/S	
OD 07-24 V with 1 pulse output forward and 1 pulse output reverse OD 07-24 S with 1 pulse output and flow direction signal	
Sensor principle	IR reflection light barrier, bi-directional
Specification	all voltages are relative to GND (-) Supply voltage (+): +5 V ... +30 V DC Supply current: typ. 250 µA, max. 270 µA Output signal: open collector (npn) Darlington, with 150 Ohm series resistance and polarity protection Output voltage: SIG relative to ground (-): 0 V ... supply voltage Output current: 0 ... +40 mA
Pulse duration	depending on flow in the meter, at meter stop continuous pulse possible
Protection	IP 68 (DIN 40050)
Temperature range	Operation temperature: medium: 0 ... 50 °C, cable housing: 0 ... 70 °C Storage temperature: -25 °C ... +75 °C
Changed polarity, Short circuit	once max. 1 s at 0 ... 25 °C without damage
Connection cable	Ø 4.1 mm, 4 x 0.14 mm², end splice, length 3 m

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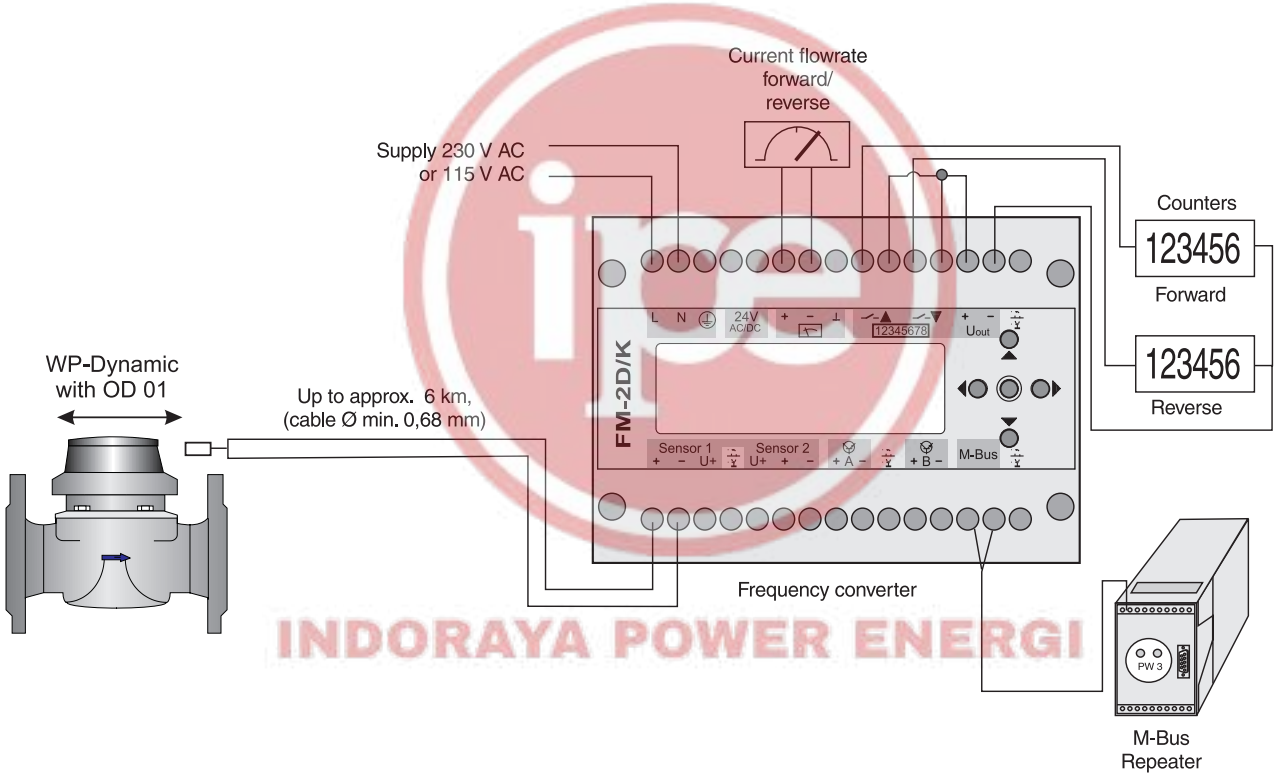
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PULSE VALUES

Nominal Diameter	DN	40 ... 125 1 pulse≙ ...	150 .. 300 1 pulse≙ ...
Cold water meter	OD 01, 07-L, 07-24 V/S	0.001 m^3	0.010 m^3
	OD 03	0.010 m^3	0.100 m^3
Hot water meter	OD 02, 02 Ex, AM	0.001 m^3	0.010 m^3
	OD 04	0.010 m^3	0.100 m^3

Wiring Example OD 01 ... 04

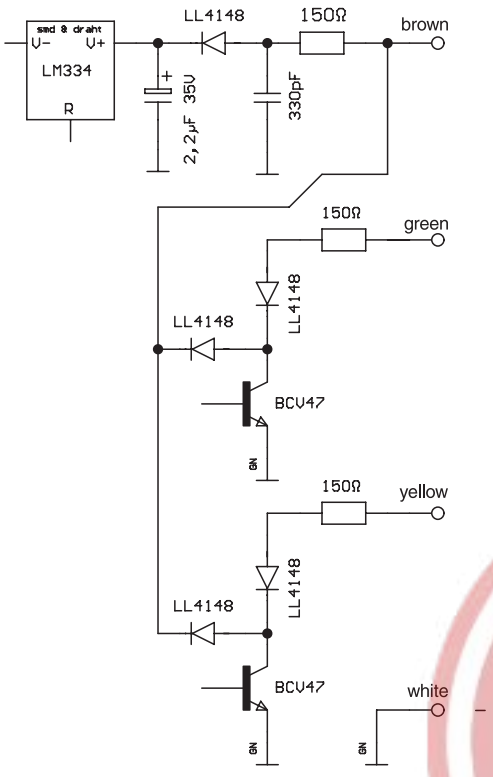


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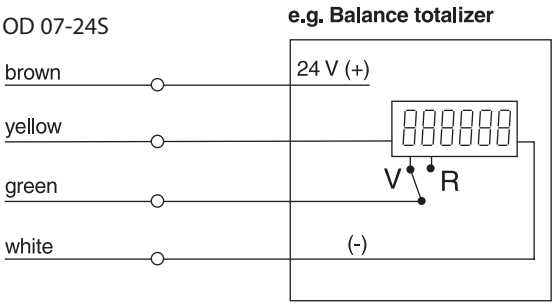
Wiring Example OD 07 24 V/S



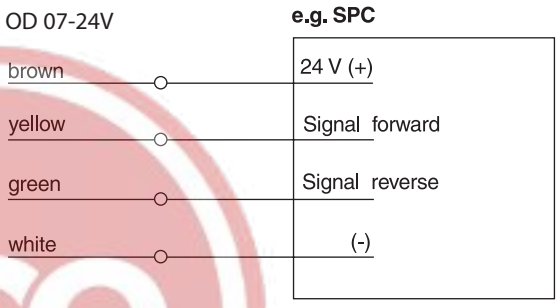
Output circuit diagram of OD 07-24S and OD 07-24V

OD 07-24S:

brown:	supply voltage (+)	
yellow:	pulses	
green:	open:	forward
	closed:	reverse
white:	ground	
shield:	internally connected to (-)	



Connection Diagram OD 07-24S



Connection Diagram OD 07-24V

OD 07-24V:

brown:	supply voltage (+)
yellow:	pulses forward
green:	pulses forward
white:	ground
shield:	internally connected to (-)

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