

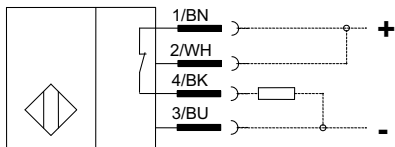
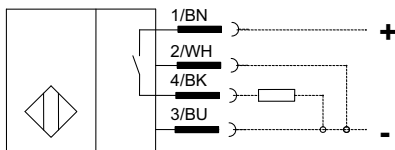
# Photoelectric Sensors

## Series M18

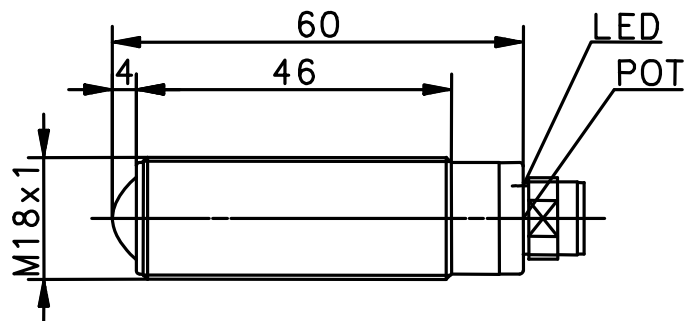
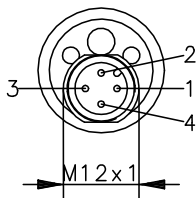
Description **OT18PS-DPTP-02.5-SLE**

Article number **6555818001**

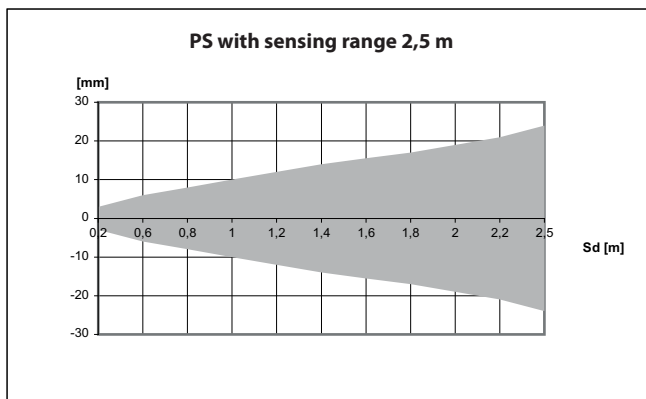
### Wiring Diagram



with mounted reflector



### Typical sensing range



Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Sensing range	$S_d$	2,5 m (Reflector Ø 80 mm)
Switching element function		programmable (L.A. / D.A.), permanent overload protection
Repeat accuracy	R	≤ 10 %
Differential travel (hysteresis)	H	≤ 15 %
Operational voltage range	$U_b$	10-36 V DC
Rated insulation voltage	$U_i$	75 V DC
Rated impulse withstand voltage	$U_{imp}$	500 V
Voltage drop	$U_d$	≤ 2 V
Utilization category		DC-13 @ $I_e = 50$ mA and $U_e = 33$ V DC
Minimum operational current	$I_m$	1 mA
Off-state current	$I_r$	≤ 0,1 mA
No-load supply current	$I_o$	≤ 15 mA, ( transmitter ≤ 25 mA)
Max. rated output current		200 mA
Ambient light proof		10 kLux
Short-circuit protection		pulsed
Frequency of operating cycles	f	500 Hz
False polarity protection		yes
Time delay before availability	$t_v$	50 ms
Turn on time	$t_{on}$	1 ms

Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	3 V/m
Electrostatic discharge test	IEC 61000-4-2	8 kV
Electrical fast transient immunity test (Burst)	IEC 61000-4-4	2 kV
Impulse voltage withstand ability (Surge)	IEC 61000-4-5	500 V, 1,2/50 $\mu$ s @ $R_i = 42 \Omega$
Radiated disturbance field strength	EN 55011	≤ 40 dB ( $\mu$ V/m)

Mechanical Data	
Enclosure	PBT, black
End cap	PA66, black
Plain front type	Glas lens
Ambient air temperature	-20 °C ... +70 °C
Type of protection	IP67
Pollution degree	3 (Pollution of the optic can cause impairments of the operating distances.)
Indication	LED yellow, Sender LED green
Termination type	Plug socket M12 x 1, PA
For attachment	Hexagonal / knurled nut, PA

EU Conformity
acc. to directive 2014/30/EU (EMC-Directive)