



Photoelectric sensors W9-3, Photoelectric retro-reflective sensor, autocollimation

WL9-3P1030S17



Model Name > [WL9-3P1030S17](#)
Part No. > [1062874](#)



Illustration may differ

At a glance

- High-performance retro-reflective sensor in ultra-rugged VISTAL™ housing
- PinPoint LED for highly visible and precise light spot
- Autocollimation optics
- Variable mounting with M3 hole pattern
- Wide range of connection options

Your benefits

- Rugged VISTAL™ housing provides reliable installation and operation
- Reliable object detection in all situations using best-in-class technology
- Quick and easy alignment with reliable object detection due to the highly visible PinPoint light spot
- M3 slotted hole mounting for multiple mounting possibilities
- One housing with a wide range of options makes machine integration easy
- Variety of accessories for simple mounting



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor, autocollimation
Dimensions (W x H x D):	12.2 mm x 50 mm x 23.6 mm
Housing design (light emission):	Rectangular
Mounting hole:	M3
Sensing range max.:	0 m ... 4 m ¹⁾
Sensing range:	0 m ... 2.5 m ²⁾
Type of light:	Visible red light
Light source:	PinPoint LED ³⁾
Special features:	Cable length 2.60 m, Test input by light-/dark-switching
Light spot size (distance):	Ø 45 mm (1.5 m)

^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

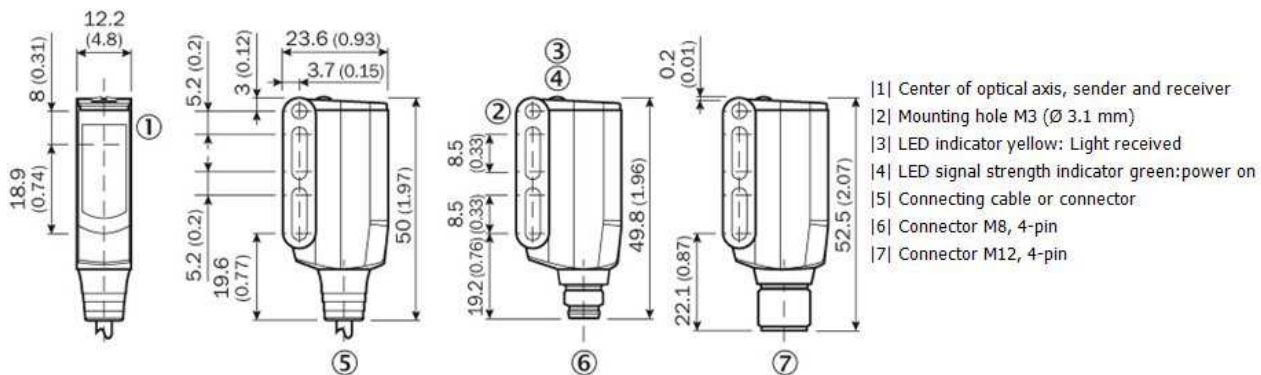
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP ⁴⁾
Switching mode:	Light switching ⁵⁾
Output current I _{max} ..:	≤ 100 mA ⁶⁾

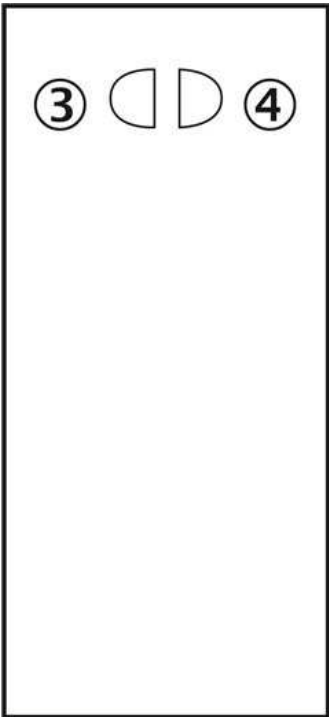
Response time:	< 0.5 ms ⁷⁾
Switching frequency:	± 1,000 Hz ⁸⁾
Connection type:	Cable, 4-wire, 2.6 m ⁹⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
Circuit protection:::	A, B, C ¹⁰⁾ 11) 12)
Protection class:	III
Weight:	80 g
Polarisation filter:	✓
Optics material:	PMMA
Enclosure rating:	IP 66 IP 67 IP 69K
Ambient temperature operation:	-40 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
Housing material:	Plastic, VISTAL

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Without load 4) 5) Q = light-switching 6) As of
 Tu 50 °C, a max. load current $I_{max.} = 50$ mA is permitted 7) Signal transit time with resistive load 8) With light/dark ratio 1:1 9) Do not bend below 0 °C 10) $A = V_S$
 connections reverse-polarity protected 11) B = inputs and output reverse-polarity protected 12) C = interference suppression

Dimensional drawing

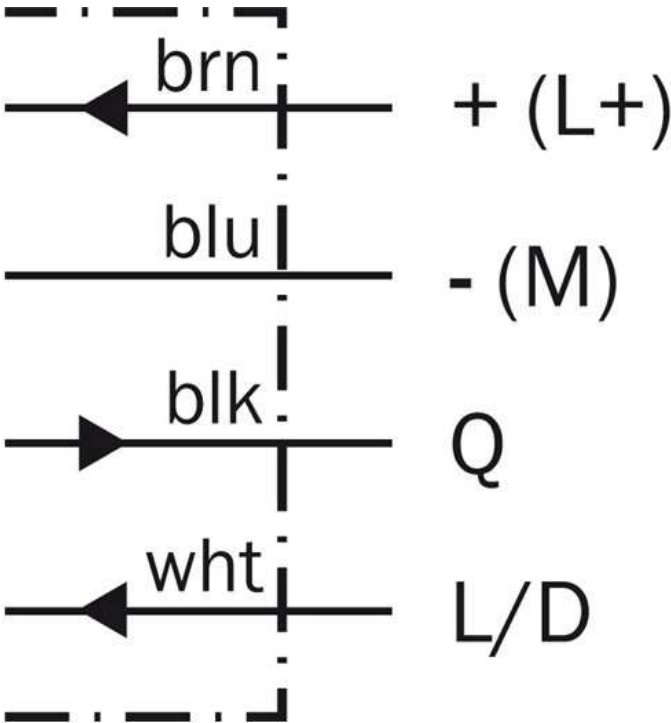


Adjustments possible

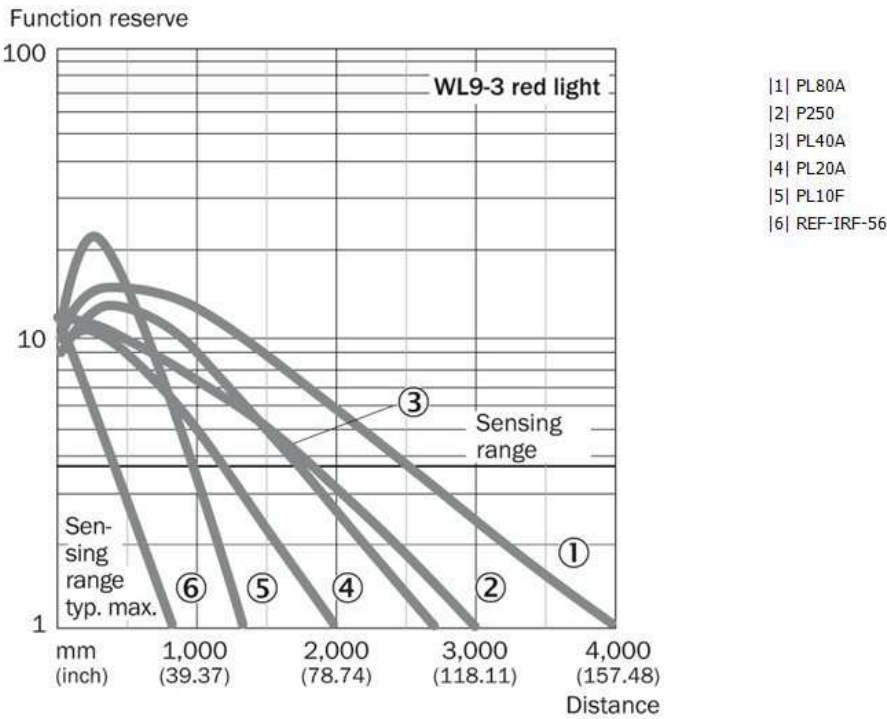


- |3| LED indicator yellow: Light received
- |4| LED signal strength indicator green:power on

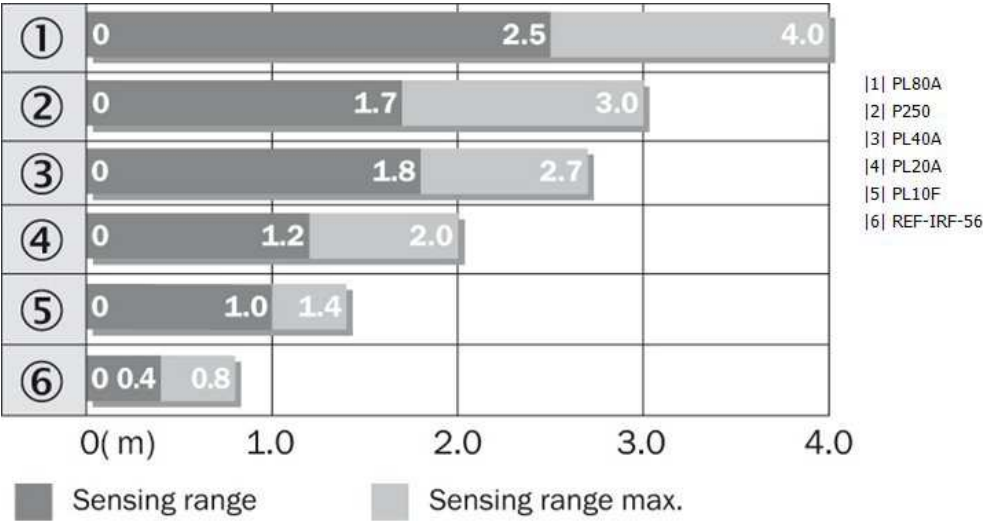
Connection diagram



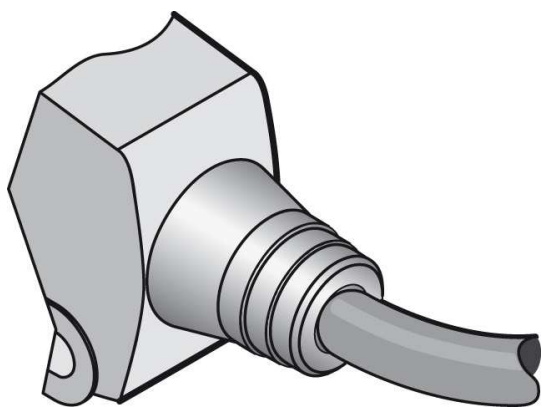
Characteristic curve



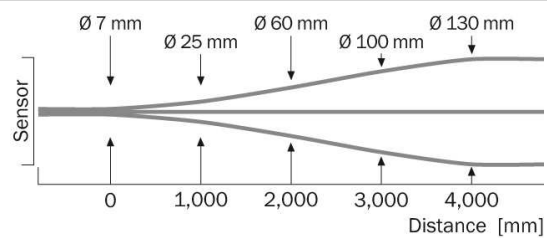
Sensing range diagram



Connection type



Light spot size



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