



Photoelectric sensors  
W150, Photoelectric retro-reflective sensor,  
Standard optics

WL150-P132S06



**Model Name** > **WL150-P132S06**  
**Part No.** > **6035762**



*Illustration may differ*

**At a glance**

- Standard optics
- Polfilter
- Sensing distance of up to 2.4 m
- Version for detection of transparent objects
- Sensitivity control on device via potentiometer
- Light/dark switching selectable via control wire
- Suitable for Diamond Grade reflective tape

**Your benefits**

- Polarizing filters prevent false readings on reflective surfaces, ensuring reliable object detection
- Reliable detection of transparent objects
- Reliable detection of objects moving at fast speeds
- Highly visible red light for easy alignment



**Features**

Sensor/detection principle:	Photoelectric retro-reflective sensor, Standard optics
Dimensions (W x H x D):	10 mm x 28 mm x 17.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 2.4 m <sup>1)</sup>
Sensing range:	0.01 m ... 2 m <sup>2)</sup>
Type of light:	Visible red light
Light source:	LED <sup>3)</sup>
Sensitivity adjustment:	Potentiometer, 270°
Angle of dispersion:	Ca. 6 °

<sup>1) 2)</sup> PL80A <sup>3)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

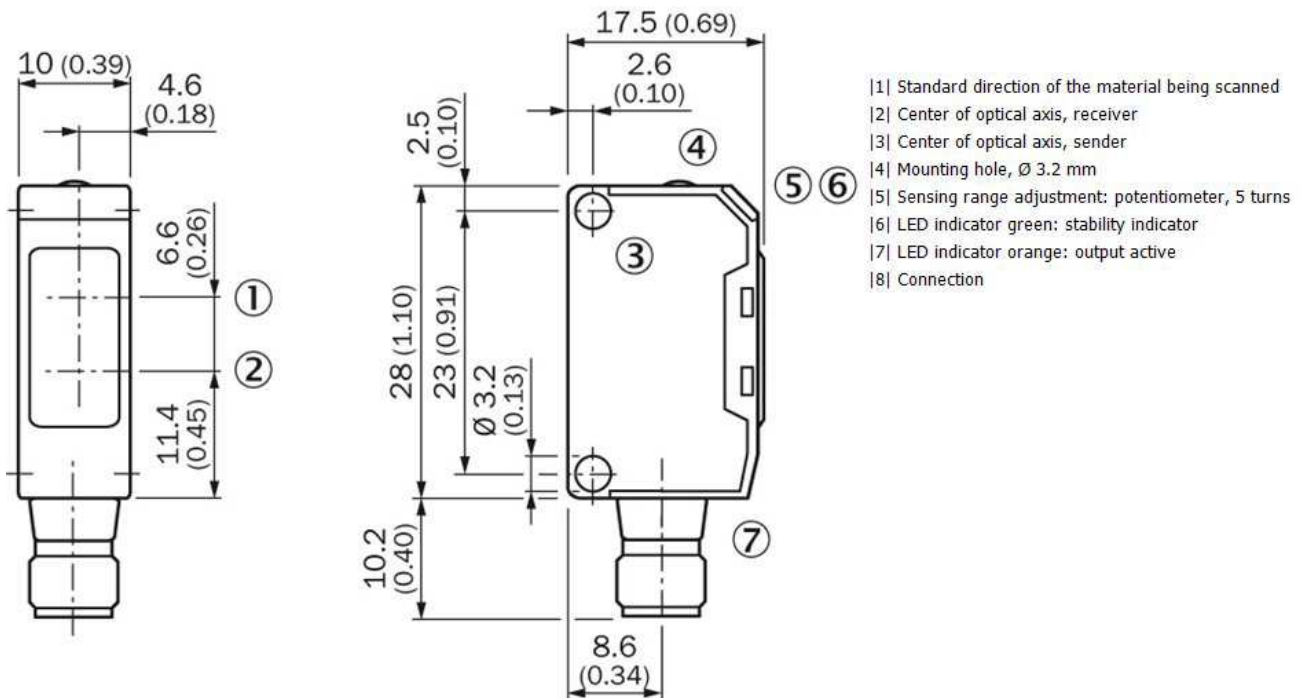
**Mechanics/electronics**

Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Residual ripple:	± 10 % <sup>2)</sup>
Power consumption:	≤ 20 mA <sup>3)</sup>
Output type:	PNP, Light/dark-switching, control cable, open collector
Output current I <sub>max.</sub> :	≤ 100 mA
Response time:	≤ 0.5 ms <sup>4)</sup>
Switching frequency:	1,000 Hz <sup>5)</sup>

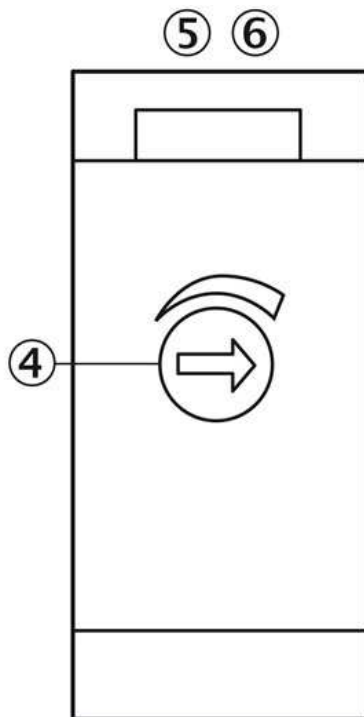
Electrical connection::	Cable, 4-wire, 0.5 m <sup>6) 7)</sup>
Cable material:	PVC
Conductor cross-section:	0.18 mm <sup>2</sup>
Circuit protection:::	A, B, C, D <sup>8) 9) 10) 11)</sup>
Protection class:	II
Weight:	44 g
Polarisation filter:	✓
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	BEF-W150-A mounting bracket, Reflector PL20A
Ambient temperature operation:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File-No.:	UL No. NRNT2.E128350 & cUL No. NRNT8.E128350

1) Limit values 2) May not exceed or fall short of V<sub>S</sub> tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) Do not bend below 0 °C 7) Pigtail Berg-Dubox 65240-004LF 8) A = V<sub>S</sub> connections reverse-polarity protected 9) B = inputs and output reverse-polarity protected 10) C = interference suppression 11) D = outputs overcurrent and short-circuit protected

**Dimensional drawing**

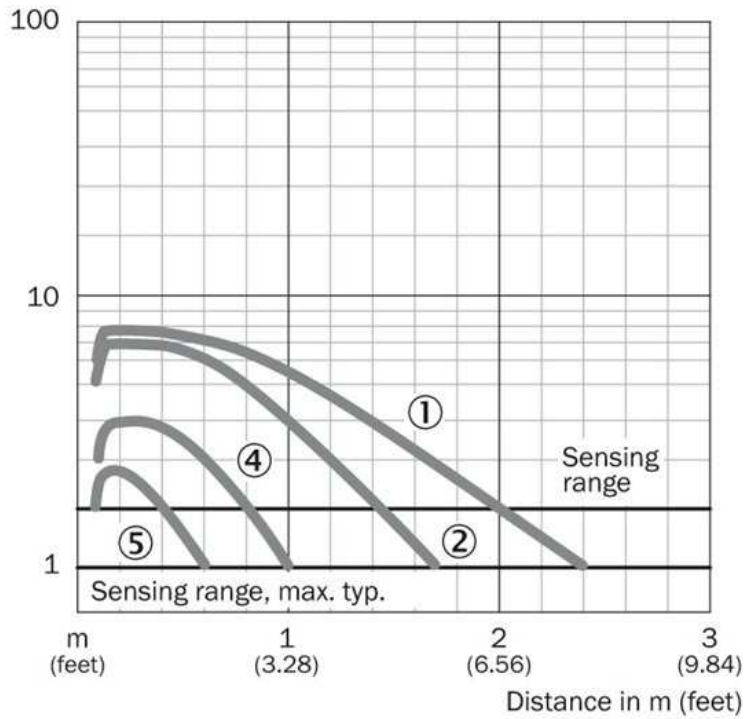


Adjustments possible

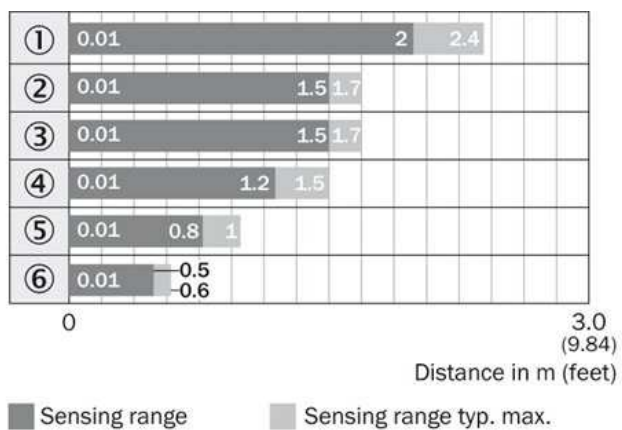


- |5| Sensing range adjustment: potentiometer, 5 turns
- |6| LED indicator green: stability indicator
- |7| LED indicator orange: output active

Characteristic curve



## Sensing range diagram



### Reflector type

- ① PL80A
- ② PL250
- ③ PL50A or PL40A
- ④ PL30A or PL31A
- ⑤ PL20A
- ⑥ Reflective tape  
Diamond Grade

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