



## Photoelectric sensors W260, Photoelectric retro-reflective sensor

WL260-0230S01



**Model Name** > [WL260-0230S01](#)  
**Part No.** > [6010102](#)



*Illustration may differ*

**Your benefits**

- High operating reserve provides increased reliability
- Configuration controls are protected by a cover, ensuring less damage and a longer service life
- Easily accessible terminal chamber for electrical connections simplifies installation
- Simplified integration due to mounting compatibility since variants for DC or DC/AC voltage supply are available in the same design
- Polarizing filter ensures reliable detection, even with shiny targets



**Features**

Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	25 mm x 78 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0.01 m ... 15 m <sup>1)</sup>
Sensing range::	0.01 m ... 10 m, 0.01 m ... 13 m <sup>2) 3)</sup>
Type of light:	Visible red light
Light source:	LED <sup>4)</sup>
Light spot (distance):	300 mm (10 m)
Sensitivity adjustment:	Potentiometer, 270°
Angle of dispersion:	1.7 °
Special features:	Two relays with two contacts in serial, test point

<sup>1) 3)</sup> PL80A <sup>2)</sup> P250 <sup>4)</sup> Average service life 100,000 h at Ta = +25 °C

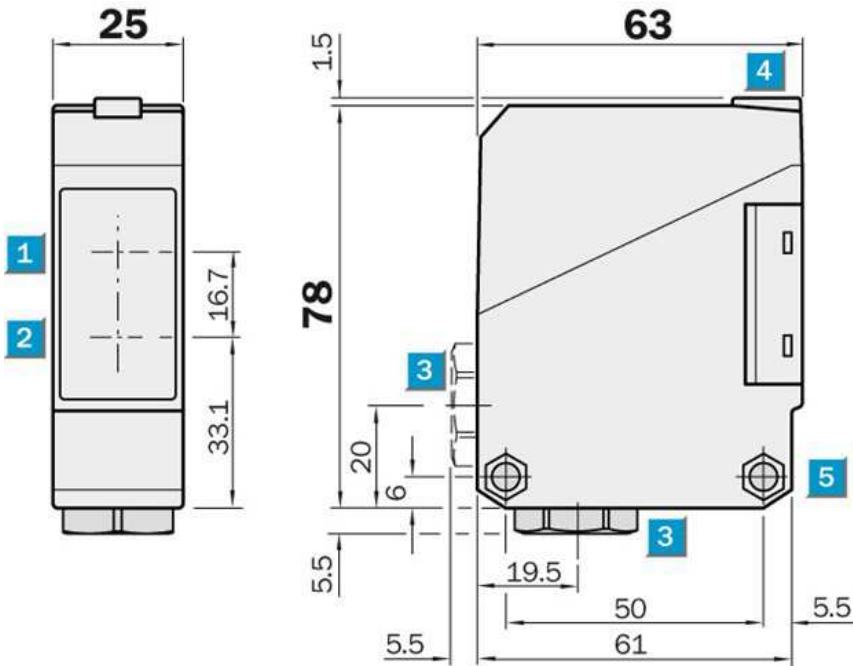
**Mechanics/electronics**

Supply voltage:	20 V AC/DC ... 30 V AC/DC <sup>1)</sup>
Power consumption:	≤ 70 mA <sup>2)</sup>
Output type:	Relay, Light-switching, NO <sup>3)</sup>
Switching current (switching voltage):	2 A
Response time:	≤ 20 ms
Switching frequency:	25 Hz <sup>4)</sup>
Electrical connection:	Cable gland
Circuit protection::	A, C <sup>5) 6)</sup>
Protection class:	II <sup>7)</sup>
Weight:	120 g
Polarisation filter:	✓

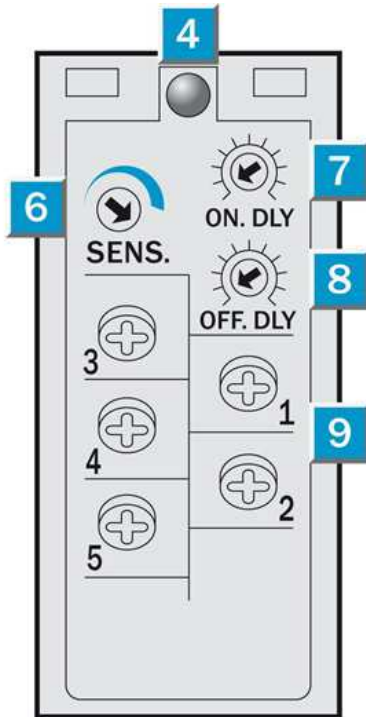
Special device:	✓
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 66
Items supplied:	Mounting bracket BEF-W260, Reflector P250
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient temperature operation:	-20 °C ... 55 °C
Ambient storage temperature:	-30 °C ... 70 °C
UL File-No.:	EN50081-1, 242356

1) Limit values 2) Without load 3) Provide suitable spark suppression for inductive or capacitive loads 4) With light/dark ratio 1:1 5) A = V<sub>S</sub> connections reverse-polarity protected 6) C = interference suppression 7) Rated voltage 250 V AC/DC

### Dimensional drawing

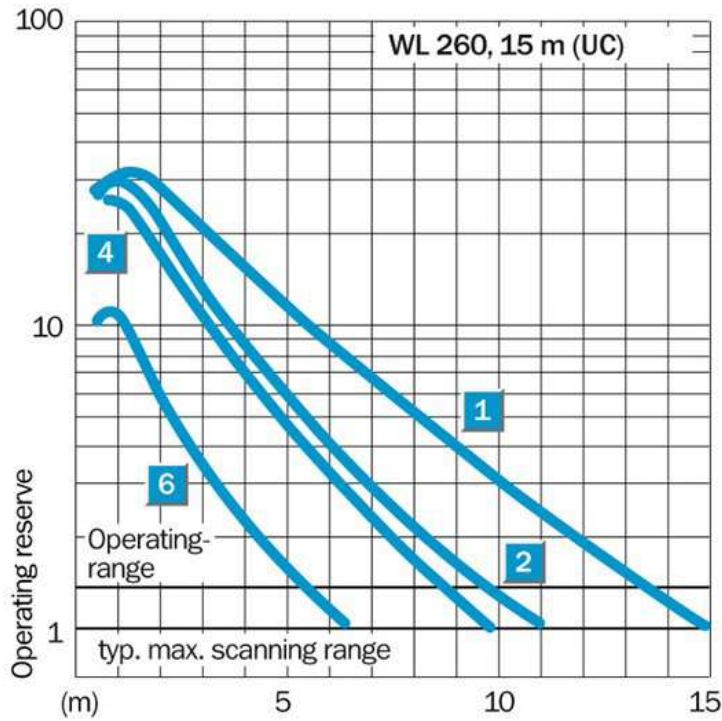


**Adjustments possible**

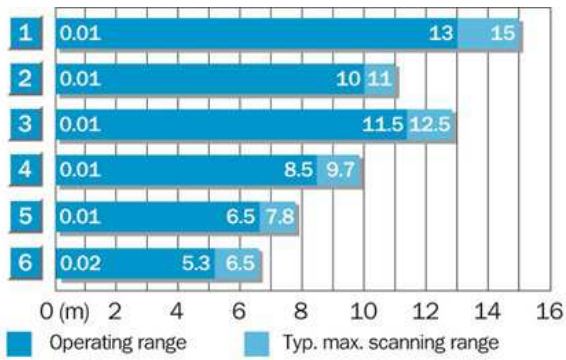


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |7| Time control ON delay tON
- |8| Time control OFF delay tOFF
- |9| Terminals

**Characteristic curve**

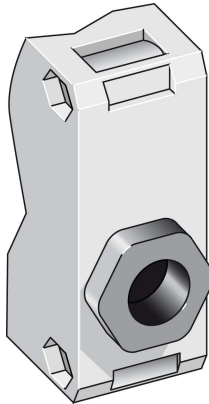


## Sensing range diagram



Reflector type	Operating range
1 PL 80 A	0.01 ... 13.0 m
2 P 250	0.01 ... 10.0 m
3 PL 50 A or PL 40 A	0.01 ... 11.5 m
4 PL 30 A or PL 31 A	0.01 ... 8.5 m
5 PL 20 A	0.01 ... 6.5 m
6 Reflective tape Diamond Grade	0.02 ... 5.3 m

## Connection type



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