



Photoelectric sensors  
W260, Photoelectric retro-reflective sensor

WL260-S270



**Model Name** > **WL260-S270**  
**Part No.** > **6020767**



*Illustration may differ*

**At a glance**

- Long sensing ranges
- Mounting bracket and reflector included with delivery
- Selectable operation mode (light/dark)
- Optional time stages
- M12 connector or terminal chamber
- Versions for 10 - 30 V DC or 12 - 240 V DC/ 24 – 240 V AC voltage supply

**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 °

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

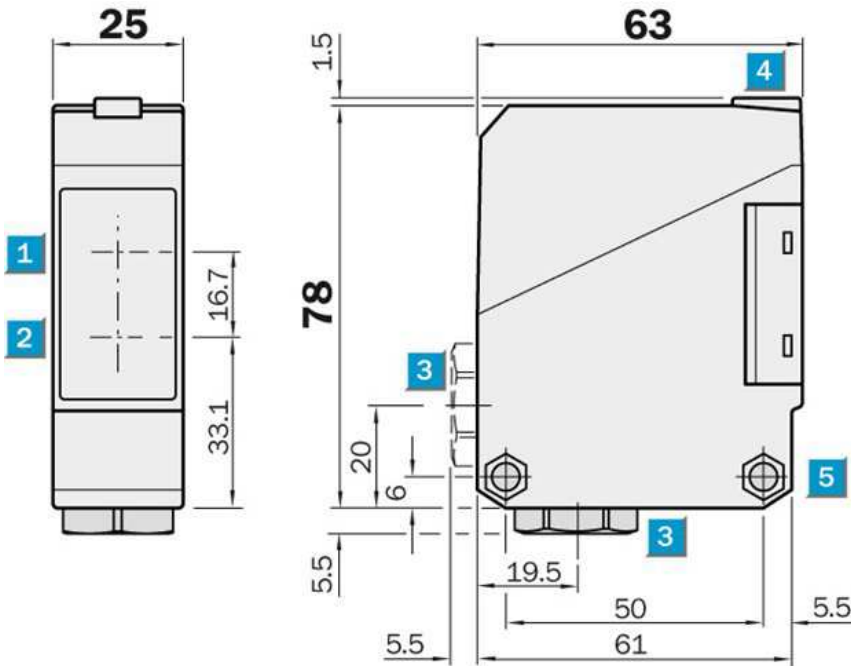
**Mechanics/electronics**

Supply voltage::	12 V DC ... 240 V DC, 24 V AC ... 240 V AC <sup>1) 2)</sup>
Power consumption:	≤ 5 VA
Output type:	Relay, Light-switching, change-over contacts, electrically isolated <sup>3)</sup>
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)

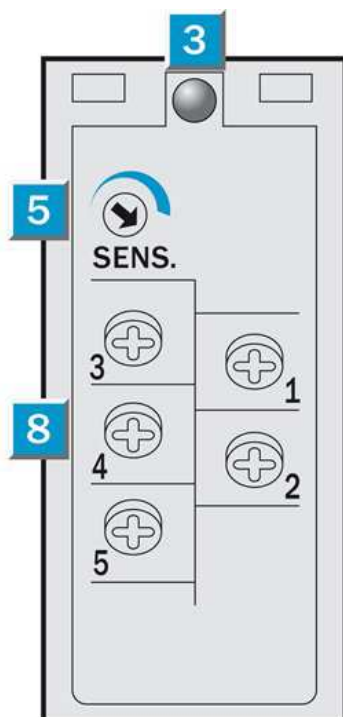
Response time:	≤ 20 ms
Switching frequency:	25 Hz <sup>4)</sup>
Electrical connection:	Cable gland
Circuit protection::	A, C <sup>5)6)</sup>
Protection class:	II <sup>7)</sup>
Weight:	120 g
Polarisation filter:	✓
Interference emission:	Level EN 61000-6-3 Residential and commercial areas
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	Mounting bracket BEF-W260, Reflector P250
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient temperature operation:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
UL File-No.:	EN50081-1, 242356

1) 2) ±10 % 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

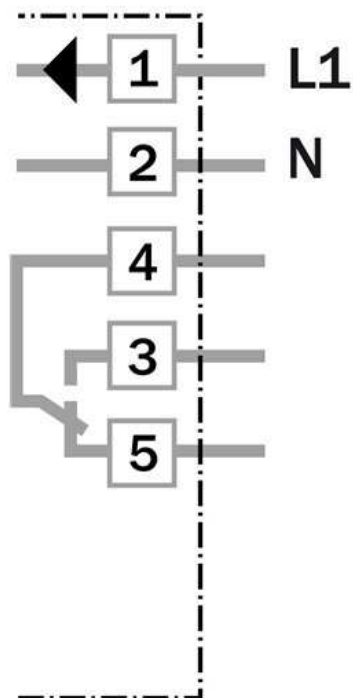


## Adjustments possible

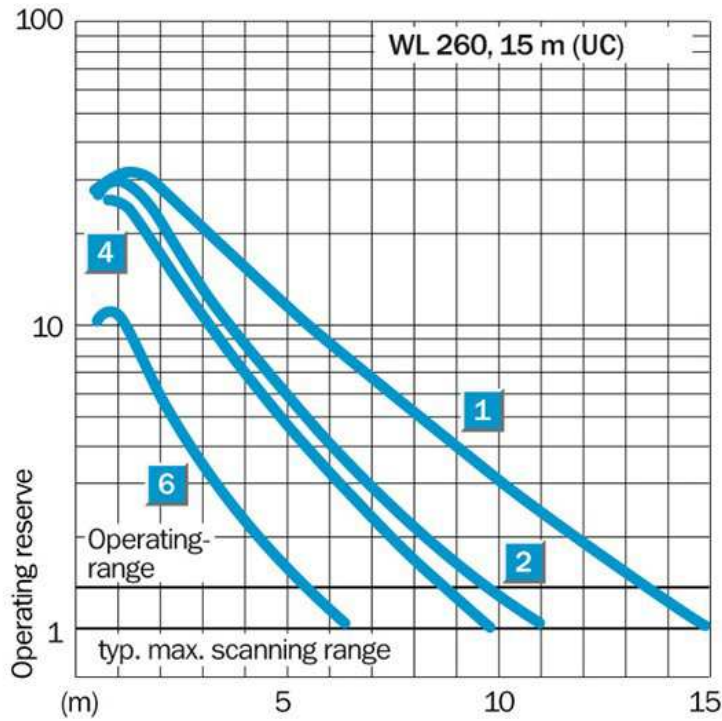


- |3| LED indicator orange: WE 260:  
switching output activeWS 260: sender active
- |5| Sensitivity adjustment
- |8| Terminals

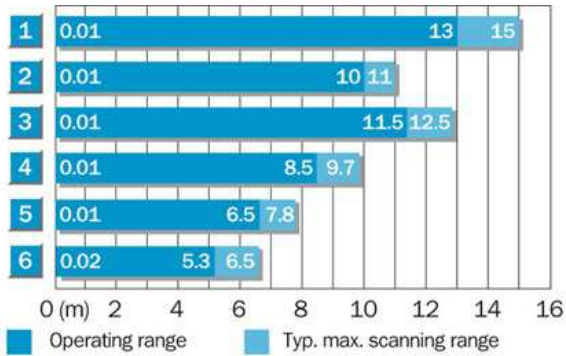
## Connection diagram



## Characteristic curve



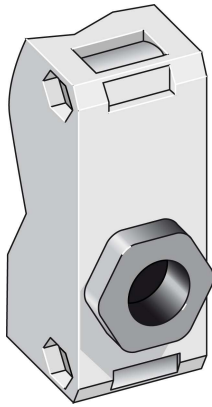
## Sensing range diagram



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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