



Photoelectric sensors
W260, Photoelectric retro-reflective sensor

WL260-R270



Model Name > [WL260-R270](#)
Part No. > [6020768](#)



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 ¹⁾
Sensing range::	0.01 m ... 10 m, 0.01 m ... 13 m ^{2) 3)}
Type of light:	Visible red light
Light source:	LED ⁴⁾
Light spot (distance):	300 mm (10 m)
Sensitivity adjustment:	Potentiometer, 270°
Time type:	Off delay, On delay
Delay time:	Adjustable via time control., Adjustable via time delay selector switch: 0.1 ... 10 s
Angle of dispersion:	1.7 °

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

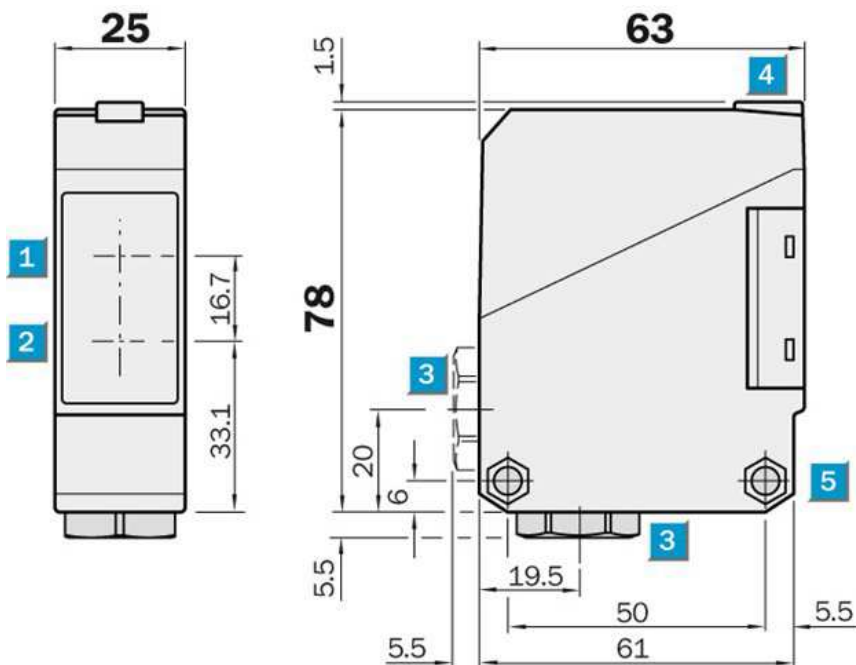
Mechanics/electronics

Supply voltage::	12 V DC ... 240 V DC, 24 V AC ... 240 V AC ^{1) 2)}
Power consumption:	≤ 5 VA

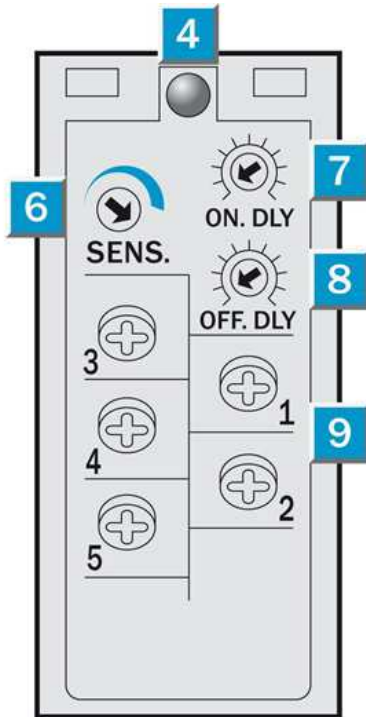
Output type:	Relay, Light-switching, change-over contacts, electrically isolated ³⁾
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁴⁾
Electrical connection:	Cable gland
Circuit protection::	A, C ^{5) 6)}
Protection class:	II ⁷⁾
Weight:	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_S connections reverse-polarity protected 6) C = interference suppression 7) Rated voltage 250 V AC/DC

Dimensional drawing

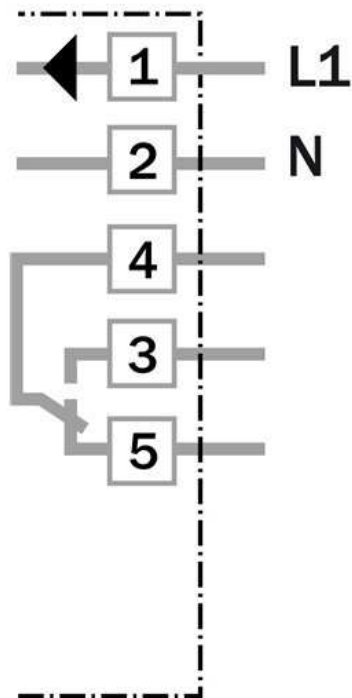


Adjustments possible

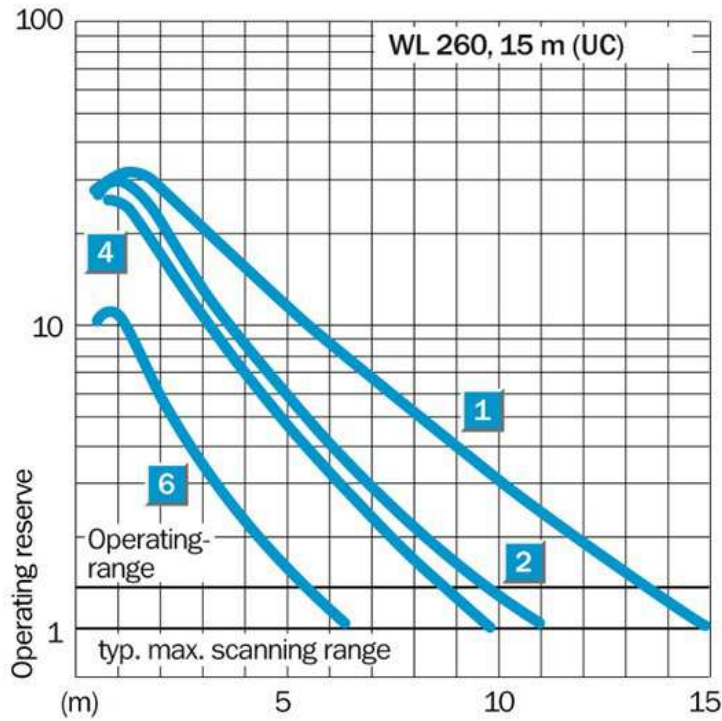


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |7| Time control ON delay tON
- |8| Time control OFF delay tOFF
- |9| Terminals

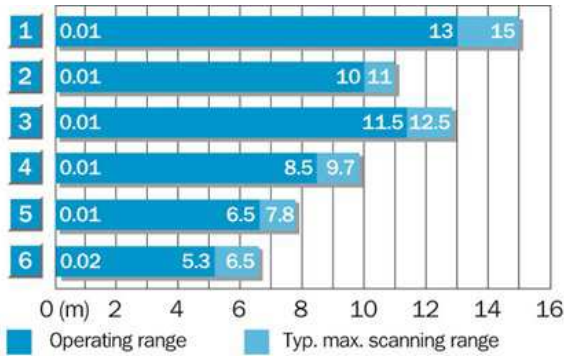
Connection diagram



Characteristic curve

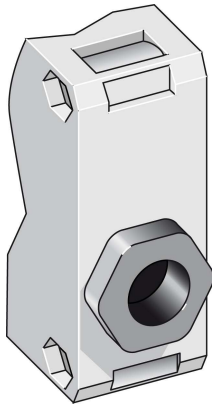


Sensing range diagram



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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