



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 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°

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

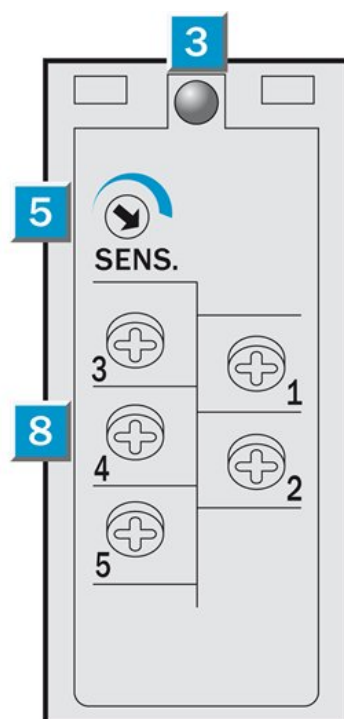
Mechanics/electronics

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

1) $\pm 10\%$ 2) Provide suitable spark suppression for inductive or capacitive loads 3) With light/dark ratio 1:1 4) A = V_S connections reverse-polarity protected 5) C = interference suppression 6) Rated voltage 250 V AC/DC

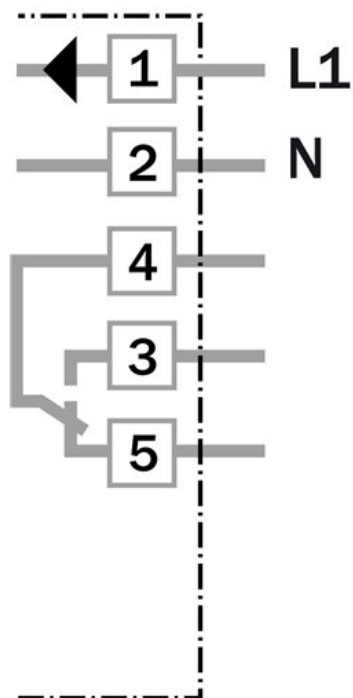
[illegible]

Adjustments possible

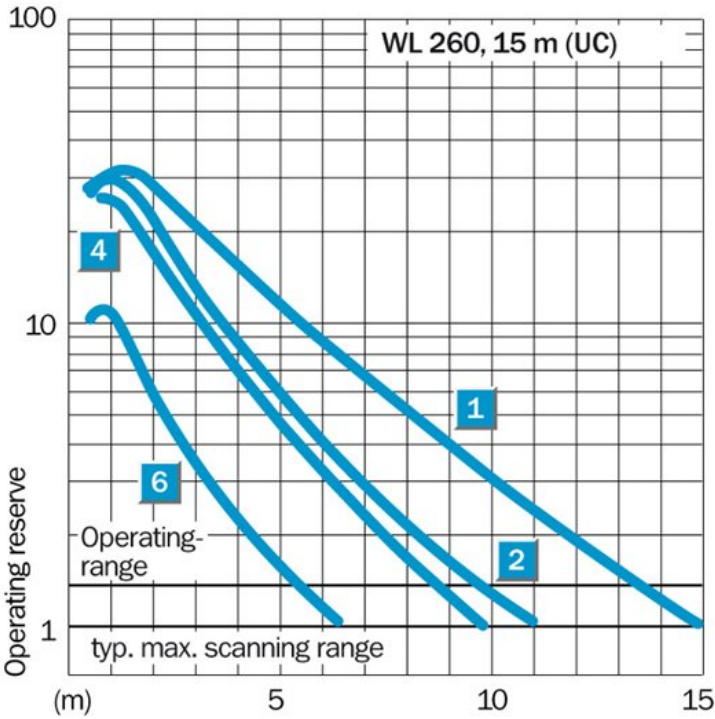


- |3| LED indicator orange: WE 260:
switching output activeWS 260: sender active
- |5| Sensitivity adjustment
- |8| Terminals

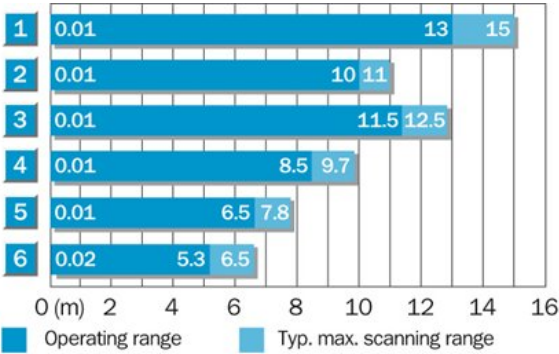
Connection diagram



Characteristic curve

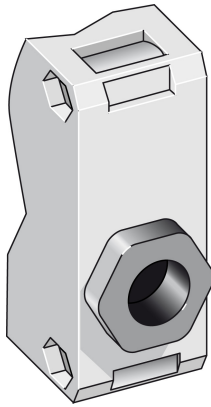


Sensing range diagram



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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