



Photoelectric sensors
W260, Photoelectric retro-reflective sensor

WL260-E270



Model Name > [WL260-E270](#)
Part No. > [6020978](#)



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

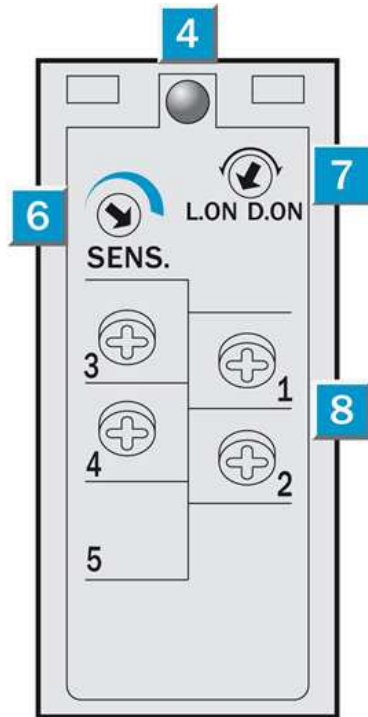
Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	25 mm x 78 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0.01 m ... 14 m ¹⁾
Sensing range:::	0.01 m ... 11.5 m, 0.01 m ... 9.5 m ^{2) 3)}
Type of light:	Visible red light
Light source:	LED ⁴⁾
Light spot (distance):	240 mm (8 m)
Sensitivity adjustment:	Potentiometer, 270°
Angle of dispersion:	1.7 °

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

Mechanics/electronics

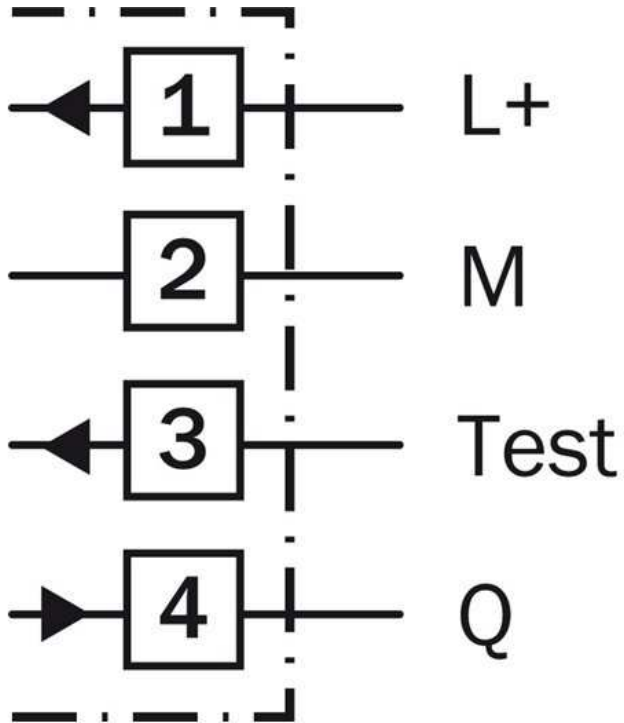
Supply voltage:	10 V DC ... 30 V DC ¹⁾
Residual ripple:	≤ 5 Vpp ²⁾
Power consumption:	≤ 35 mA ³⁾
Output type:	NPN, Light/dark-switching, selectable via light/dark selector, open collector

Adjustments possible

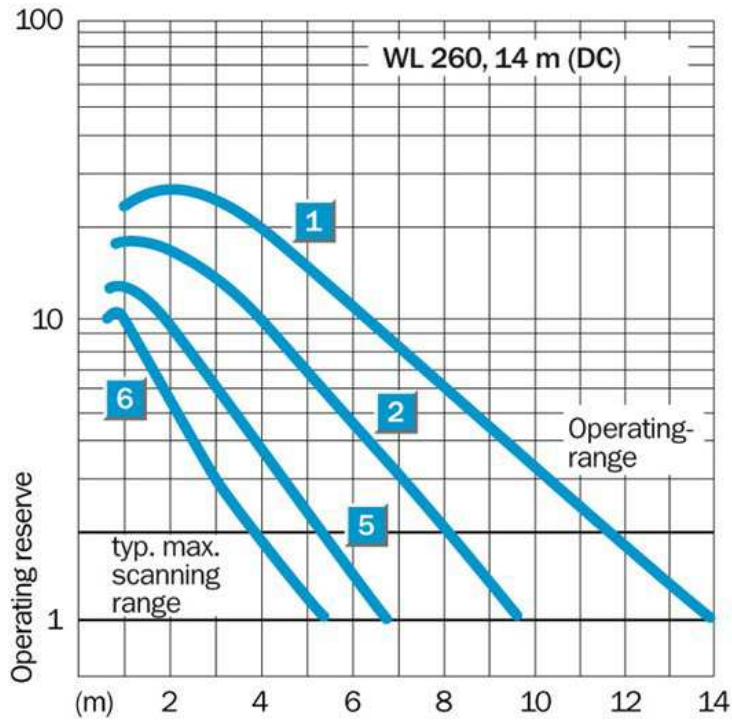


- |4| Status indicator LED, yellow: Output active
- |6| Sensing distance adjustment
- |7| Light/ dark rotary switch L= light switching, D= dark switching
- |8| Terminals

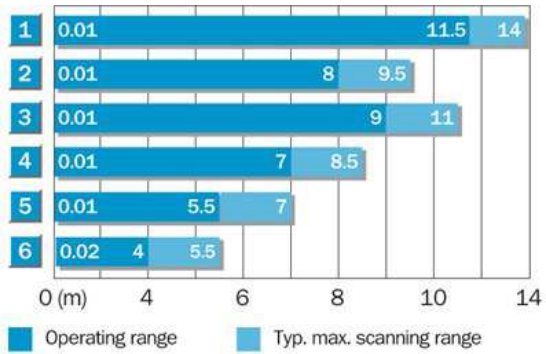
Connection diagram



Characteristic curve

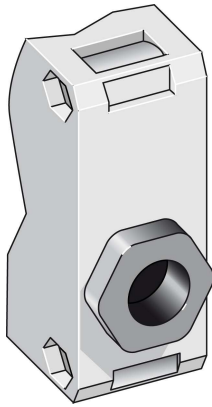


Sensing range diagram



Reflector type	Operating range
1 PL 80 A	0.01 ... 11.5 m
2 P 250	0.01 ... 8 m
3 PL 50 A or PL 40 A	0.01 ... 9 m
4 PL 30 A or PL 31 A	0.01 ... 7 m
5 PL 20 A	0.01 ... 5.5 m
6 Reflective tape Diamond Grade	0.02 ... 4 m

Connection type



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