

ONLINE DATA SHEET
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Photoelectric sensors
W260, Photoelectric retro-reflective sensor

WL260-F270



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W260, Photoelectric retro-reflective sensor

Model Name > WL260-F270
Part No. > 6020976





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

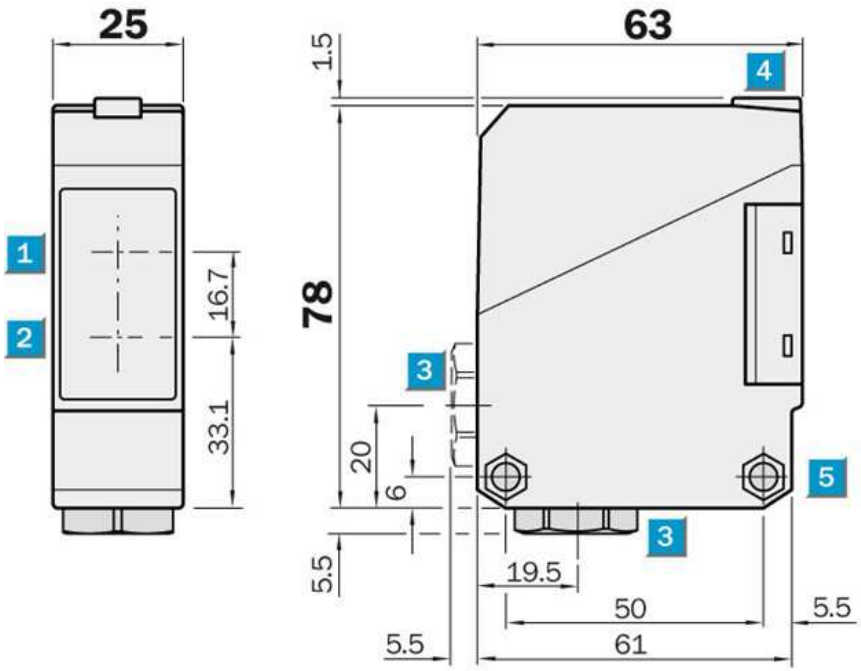
Supply voltage:	10 V DC ... 30 V DC [1]
Residual ripple:	≤ 5 Vpp [2]
Power consumption:	≤ 35 mA [3]
Output type:	PNP, Light/dark-switching, selectable via light/dark selector, open collector

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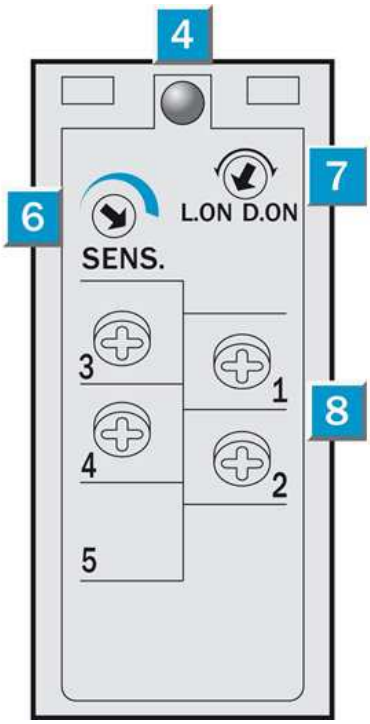
Output current Imax.:	100 mA
Response time:	≤ 1.5 ms [4]
Switching frequency:	333 Hz [5]
Electrical connection:	Cable gland
Circuit protection::::	A, B, C, D [6] [7] [8] [9]
Protection class:	II [10]
Weight:	120 g
Polarisation filter:	✓
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	Mounting bracket BEF-W260, Reflector P250
Test input sender off:	TE to VS
Ambient temperature operation:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
UL File-No.:	EN50081-1, 242356

[1] Limit values, operation in short-circuit protected network max. 8 A [2] May not exceed or fall short of V_S [3] Without load [4] Signal transit time with resistive load [5] With light/dark ratio 1:1 [6] A = V_S connections reverse-polarity protected [7] B = inputs and output reverse-polarity protected [8] C = interference suppression [9] D = outputs overcurrent and short-circuit protected [10] Reference voltage 50 V DC

Dimensional drawing

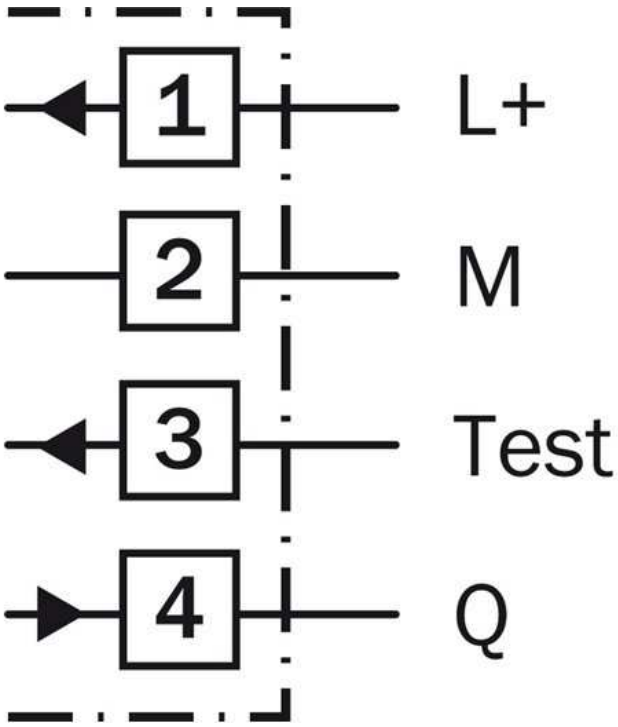


Adjustments possible



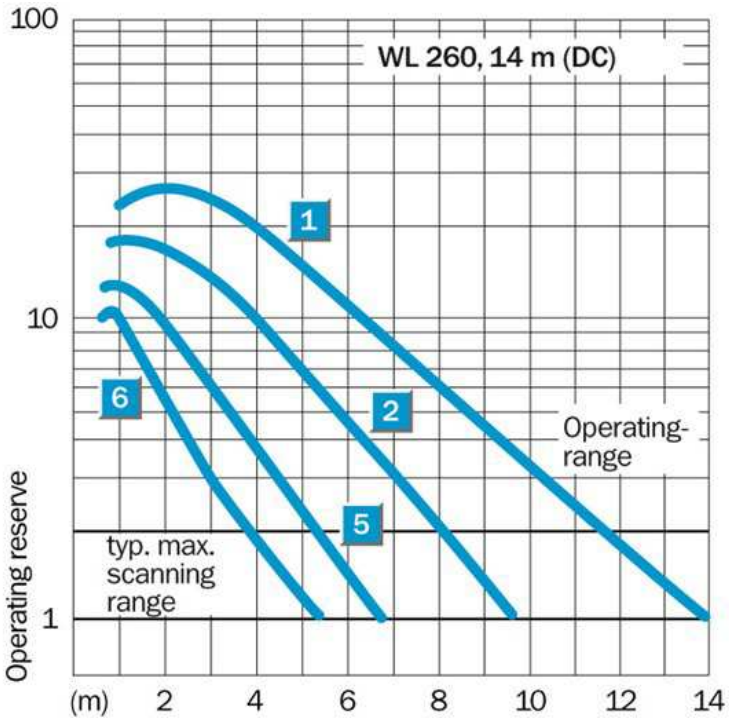
|4| Status indicator LED, yellow: Output active
|6| Sensing distance adjustment
|7| Light/ dark rotary switch L= light switching, D= dark switching
|8| Terminals

Connection diagram

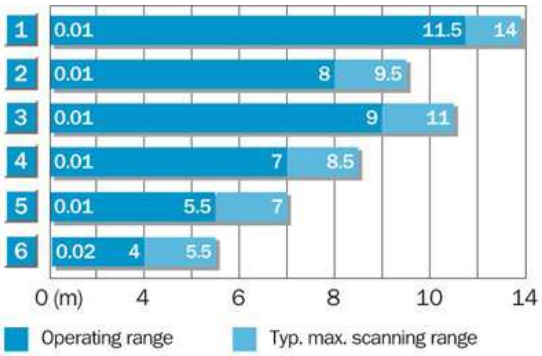


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Characteristic curve



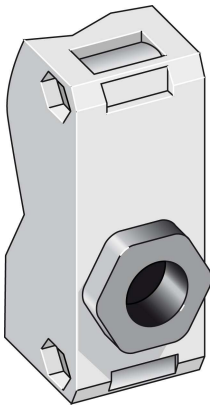
Sensing range diagram



	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

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Connection type



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