



WL260-R270 W260

**COMPACT PHOTOELECTRIC SENSORS** 





## Ordering information

Туре	Part no.
WL260-R270	6020768

Included in delivery: P250 (1), BEF-W260 (1)

Other models and accessories →

Illustration may differ



#### Detailed technical data

## **Features**

Sensor/ detection principle	Photoelectric retro-reflective sensor, Dual lens
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 <sup>2)</sup> 0.01 m 13 m <sup>1)</sup>
Type of light	Visible red light
Light source	LED <sup>3)</sup>
Light spot size (distance)	Ø 300 mm (10 m)
Angle of dispersion	Approx. 1.7°
Adjustment	Potentiometer, 270°

<sup>1)</sup> Reflector PL80A.

## Mechanics/electronics

Supply voltage	12 V DC 240 V DC <sup>1)</sup> 24 V AC 240 V AC <sup>1)</sup>
Power consumption	≤ 5 VA
Switching output	Relay, electrically isolated <sup>2)</sup>

 $<sup>^{1)}</sup>$  ±10 %.

<sup>&</sup>lt;sup>2)</sup> Reflector P250.

 $<sup>^{3)}</sup>$  Average service life: 100,000 h at  $T_{U}$  = +25 °C.

 $<sup>^{2)}\ \</sup>mbox{Provide}$  suitable spark suppression for inductive or capacitive loads.

 $<sup>^{3)}</sup>$  With light/dark ratio 1:1.

 $<sup>^{4)}</sup>$  A = V<sub>S</sub> connections reverse-polarity protected.

 $<sup>^{5)}</sup>$  C = interference suppression.

<sup>6)</sup> Rated voltage: 250 V AC/DC.

Output function	Change-over contacts
Switching mode	Light switching <sup>2)</sup>
Switching current (switching voltage)	3 A (240 V AC) 3 A (30 V DC)
Response time	≤ 20 ms
Switching frequency	25 Hz <sup>3)</sup>
Time functions	On delay Off delay
Delay time	Adjustable via time delay selector switch, $0.1\mathrm{s}\dots10\mathrm{s}$ Adjustable via time control,
Connection type	Cable gland
Circuit protection	A <sup>4)</sup> C <sup>5)</sup>
Protection class	и <sup>6)</sup>
Weight	120 g
Polarisation filter	✓
Interference emission	Level EN 61000-6-3 Residential and commercial areas
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67
Items supplied	Reflector P250, mounting bracket BEF-W260
Usage category	AC-15, DC-13, according to EN 60947-1
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	EN50081-1, 242356

<sup>1) ±10 %</sup> 

#### Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
ECI@ss 8.0	27270902
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
UNSPSC 16.0901	39121528

<sup>2)</sup> Provide suitable spark suppression for inductive or capacitive loads.

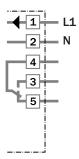
<sup>3)</sup> With light/dark ratio 1:1.

 $<sup>^{4)}</sup>$  A = V<sub>S</sub> connections reverse-polarity protected.

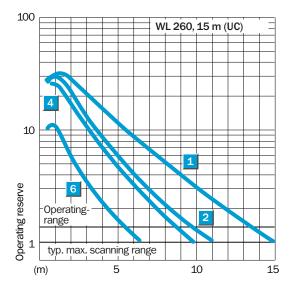
<sup>&</sup>lt;sup>5)</sup> C = interference suppression.

<sup>6)</sup> Rated voltage: 250 V AC/DC.

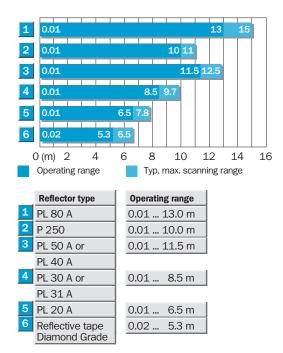
## Connection diagram



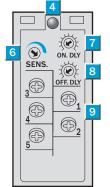
## Characteristic curve



## Sensing range diagram

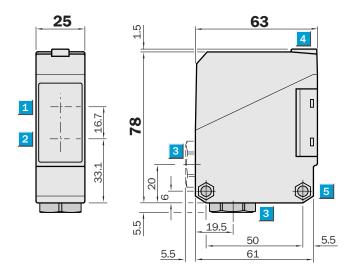


## Adjustments possible



- 4 LED signal strength indicator, red
- 6 Sensitivity control
- $\ensuremath{\mathfrak{T}}$  Time control ON delay  $t_{\text{ON}}$
- Time control OFF delay t<sub>OFF</sub>
- Terminals

# Dimensional drawing (Dimensions in mm (inch))



## Recommended accessories

Other models and accessories →

	Brief description	Туре	Part no.	
Mounting brackets and plates				
	Mounting bracket, steel, zinc coated, without mounting hardware	BEF-W260	5304819	
· :.	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574	
Reflectors				
	Rectangular, screw connection, 47 mm x 47 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812	

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

