

WS/WE260-S270 W260

COMPACT PHOTOELECTRIC SENSORS

SICKSensor Intelligence.



Ordering information

Туре	Part no.
WS/WE260-S270	6020773

Included in delivery: BEF-W260 (2)

Other models and accessories → www.sick.com/W260

Illustration may differ



Detailed technical data

Features

Functional principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	25 mm x 78 mm x 63 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m 45 m
Sensing range	0 m 40 m
Focus	Approx. 1°
Type of light	Visible red light
Light source	LED ¹⁾
Light spot size (distance)	Ø 700 mm (40 m)
Angle of dispersion	Approx. 1°
Adjustment	Potentiometer, 270°

 $^{^{1)}}$ Average service life: 100,000 h at TU = +25 °C.

Mechanics/electronics

,	
Supply voltage	12 V DC 240 V DC ¹⁾ 24 V AC 240 V AC ¹⁾
Power consumption, sender	≤ 4 VA
Power consumption, receiver	≤ 5 VA
Switching output	Relay, electrically isolated ²⁾
Output function	Change-over contacts
Switching mode	Light switching ²⁾

¹⁾ +- 10%.

 $^{^{2)}\,\}mbox{Provide}$ suitable spark suppression for inductive or capacitive loads.

³⁾ With light/dark ratio 1:1.

 $^{^{\}rm 4)}$ A = V_S connections reverse-polarity protected.

⁵⁾ C = interference suppression.

⁶⁾ Rated voltage: 250 V AC/DC.

Switching current (switching voltage) 3 A (240 V AC) 3 A (30 V DC) Response time ≤ 20 ms	
Pospones time < 20 ms	
response unie	
Switching frequency 25 Hz ³⁾	
Angle of reception Approx. 20°	
Connection type Cable gland	
Circuit protection $ \begin{array}{c} A^{4)} \\ C^{5)} \end{array} $	
Protection class II 6)	
Weight 120 g	
Interference emission Level EN 61000-6-3	
Housing material Plastic, ABS	
Optics material Plastic, PC	
Enclosure rating IP67	
Items supplied Mounting bracket BEF-W260	
Electromagnetic compatibility (EMC) Level EN 61000-6-3	
Ambient operating temperature	
Ambient temperature, storage -40 °C +70 °C	

¹⁾ +- 10%.

Safety-related parameters

MTTF _D	361 years
DC _{avg}	0 %

Classifications

eCl@ss 5.0	27270901
eCl@ss 5.1.4	27270901
eCl@ss 6.0	27270901
eCl@ss 6.2	27270901
eCl@ss 7.0	27270901
eCl@ss 8.0	27270901
eCl@ss 8.1	27270901
eCl@ss 9.0	27270901
eCl@ss 10.0	27270901
eCl@ss 11.0	27270901
eCl@ss 12.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716

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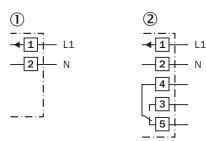
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

Connection type



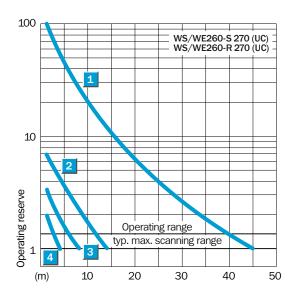
Connection diagram

Cd-227

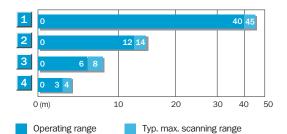


- ① Sender
- ② Receiver

Characteristic curve

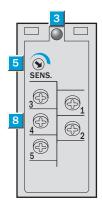


Sensing range diagram



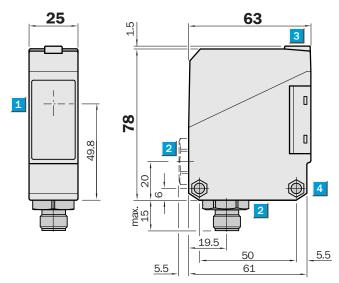
	Scanning range reduction when using slotted masks	
1	Without slotted mask	
2	Slot width 5 mm	
3	Slot width 2 mm	
4	Slot width 1 mm	

Adjustments



- ③ LED indicator orange: WE 260: switching output activeWS 260: sender active
- ⑤ Sensitivity control⑧ Terminals

Dimensional drawing (Dimensions in mm (inch))



- ① Center of optical axis, sender/ receiver
- ② Cable entry gland 1/2" PF thread for cable diameters from 6 to 10 mm optionally at bottom or rear; or connector M12, bottom
- ③ LED indicator orange: WE 260: switching output activeWS 260: sender active
- 4 Mounting hole g 5.2 mm, for M5 hexagon nuts on both sides

Recommended accessories

Other models and accessories → www.sick.com/W260

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket, steel, zinc coated, without mounting hardware	BEF-W260	5304819

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