



Photoelectric sensors W260, Through-beam photoelectric sensor

WS/WE260-R270



Model Name > [WS/WE260-R270](#)
Part No. > [6020774](#)



Illustration may differ

At a glance

- Long sensing ranges
- Mounting brackets for sender and receiver are 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



Features

Sensor/detection 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
Type of light:	Visible red light
Light source:	LED ¹⁾
Time type:	Time delay off, Switch on delay
Delay time:	Adjustable via time control:, Adjustable via time delay selector switch: 0.1 ... 10 s
Angle of dispersion:	Ca. 1 °
Adjustment:	Potentiometer, 270°
Light spot size (distance):	Ø 700 mm (40 m)

¹⁾ Average service life of 100,000 h at T_A = +25 °C

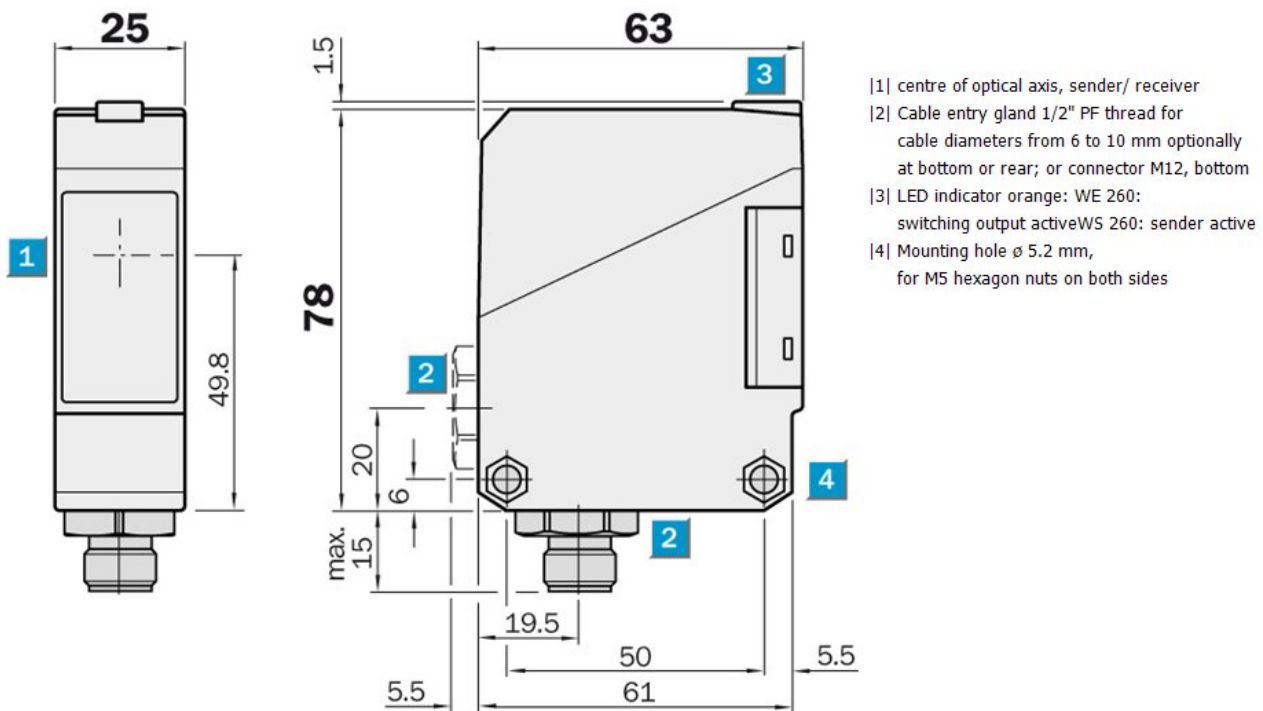
Mechanics/electronics

Supply voltage::	12 V DC ... 240 V DC, 24 V AC ... 240 V AC ^{1) 2)}
Power consumption, sender:	≤ 4 VA
Power consumption, receiver:	≤ 5 VA

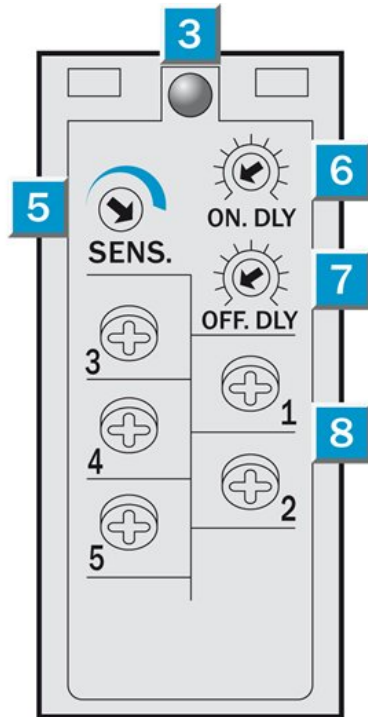
Output type:	Relay, electrically isolated ³⁾
Output function:	Change-over contacts
Switching mode:	Light switching ⁴⁾
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁵⁾
Angle of reception:	Ca. 20 °
Connection type:	Cable gland
Circuit protection:	A, C ^{6) 7)}
Protection class:	II ⁸⁾
Weight:	120 g
Interference emission:	Level EN 61000-6-3 Residential and commercial areas
Housing material:	ABS, Plastic
Optics material:	PC
Enclosure rating:	IP 67
Items supplied:	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

1) 2) ±10 % 3) 4) Provide suitable spark suppression for inductive or capacitive loads 5) With light/dark ratio 1:1 6) A = V_S connections reverse-polarity protected 7) C = interference suppression 8) Rated voltage 250 V AC/DC

Dimensional drawing



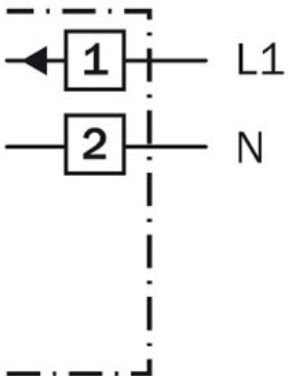
Adjustments possible



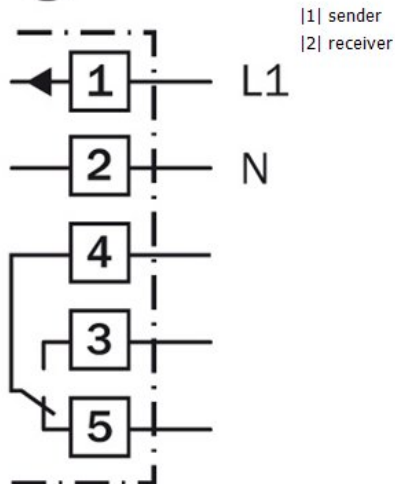
- |3| LED indicator orange: WE 260:
switching output activeWS 260: sender active
- |5| Sensitivity adjustment
- |6| Time control ON delay tON
- |7| Time control OFF delay tOFF
- |8| Terminals

Connection diagram

①

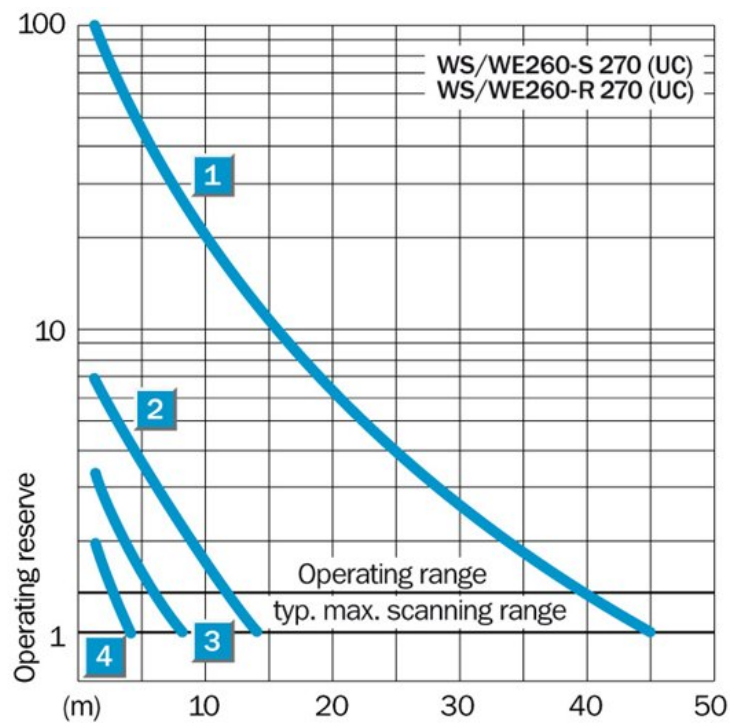


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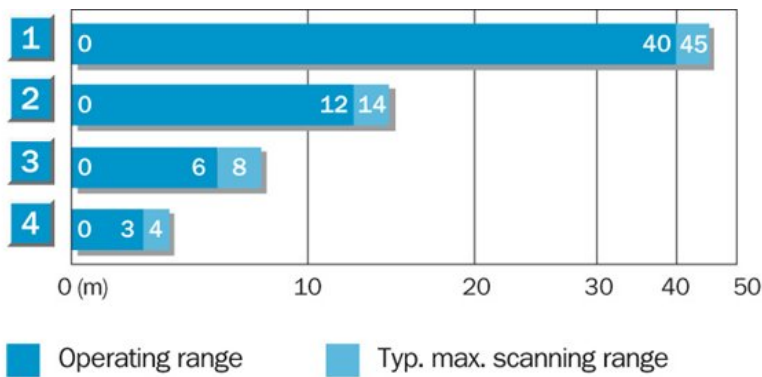


- |1| sender
- |2| receiver

Characteristic curve



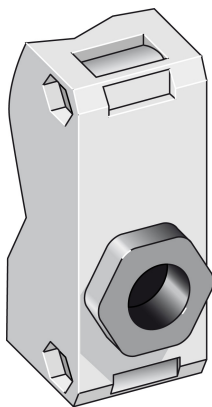
Sensing range diagram



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

Connection type



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