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DATA SHEET

WT260-R260

W260
Photoelectric sensors

SICK

Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

WT260-R260

ORDERING INFORMATION

Type	part no.
WT260-R260	6009472

Further device versions and accessories at www.sick.com/WT260

DETAILED TECHNICAL DATA

FEATURES

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	25 mm x 77.8 mm x 63 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm ... 380 mm ¹⁾
Sensing range	0 mm ... 380 mm ²⁾ 75 mm ... 160 mm ³⁾
Focus	Approx. 1.5°
Type of light	Infrared light
Light source	LED ⁴⁾
Light spot size (distance)	Ø 17 mm (300 mm)
Angle of dispersion	Approx. 1.5°
Adjustment	Potentiometer, 270°

¹⁾ Object with 90% remission (based on standard white, DIN 5033).

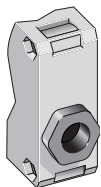
²⁾ Set sensing range at MAX.

³⁾ Set sensing range at MIN.

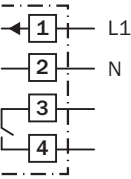
⁴⁾ Average service life: 100,000 h at T_u = +25 °C.

MECHANICS/ELECTRONICS

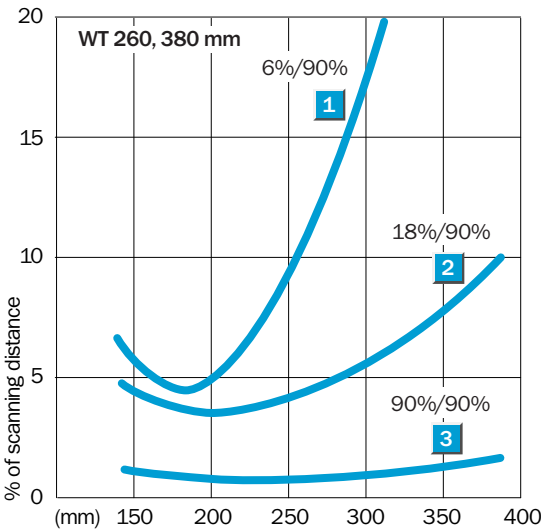
Supply voltage	12 V DC ... 240 V DC ¹⁾ 24 V AC ... 240 V AC ¹⁾
Power consumption	≤ 5 VA
Switching output	Relay, electrically isolated ²⁾
Output function	NO
Switching mode	Light/dark switching ²⁾
Switching mode selector	Selectable via light/dark selector
Switching current (switching voltage)	3 A (240 V AC) 3 A (30 V DC)
Response time	≤ 20 ms
Switching frequency	25 Hz ³⁾
Time functions	One shot On delay Off delay Without time delay
Delay time	Adjustable via time delay selector switch, 0.1 s ... 5 s Adjustable via time control
Connection type	Cable gland
Circuit protection	A ⁴⁾ C ⁵⁾
Protection class	II ⁶⁾
Weight	120 g
Housing material	Plastic, ABS
Optics material	Plastic, PC
Enclosure rating	IP66
Items supplied	Mounting bracket BEF-W260
Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ ± 10%.²⁾ Provide suitable spark suppression for inductive or capacitive loads.³⁾ With light/dark ratio 1:1.⁴⁾ A = V_s connections reverse-polarity protected.⁵⁾ C = interference suppression.⁶⁾ Rated voltage: 250 V AC/DC.**CONNECTION TYPE**

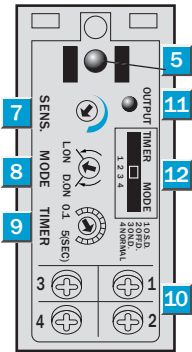
CONNECTION DIAGRAM CD-124



CHARACTERISTIC CURVE

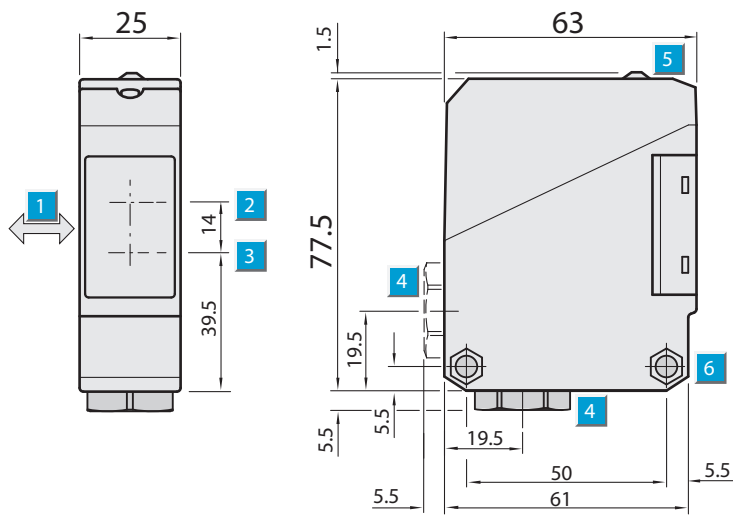


ADJUSTMENTS



- ⑤ LED signal strength indicator, red
- ⑦ Adjustment of sensing range
- ⑧ Light/ dark rotary switch: L = light switching, D = dark switching
- ⑨ Time control
- ⑩ Terminals
- ⑪ Terminals
- ⑫ Red LED status indicator, switching output active

DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Standard direction of the material being detected
- ② Center of optical axis, receiver
- ③ Center of optical axis, sender
- ④ Cable entry gland 1/2" PF for cable diameter 6 to 10 mm optionally at bottom or rear
- ⑤ LED reception indicator, red
- ⑥ Mounting hole $\varnothing$ 5.2 mm, for M5 hexagon nuts on both sides

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6009472



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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