Online data sheet

WT260-R260

W260

COMPACT PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

Illustration may differ

Ordering information

Type	Part no.
WT260-R260	6009472

Included in delivery: BEF-W260 (1)

Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, 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]
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°
Time type	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

[1] Object with 90 % reflectance (referred to 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

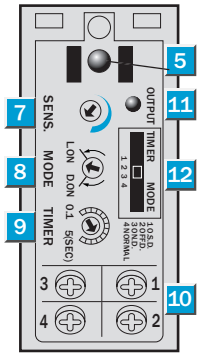
Supply voltage	12 V DC ... 240 V DC [1] 24 V AC ... 240 V AC [1]
Power consumption	≤ 5 VA
Switching output	Relay, electrically isolated [2]
Output function	NO
Switching mode	Light/dark switching [2]
Switching mode selector	Selectable via light/dark selector
Switching current (switching voltage)	3 A (240 V AC) 3 A (30 V DC)
Response time	≤ 20 ms
Switching frequency	25 Hz [3]
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
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.	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.

Classifications

ECl@ss 5.0	27270904
ECl@ss 5.1.4	27270904
ECl@ss 6.0	27270904
ECl@ss 6.2	27270904
ECl@ss 7.0	27270904
ECl@ss 8.0	27270904
ECl@ss 8.1	27270904
ECl@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

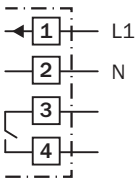
Adjustments possible



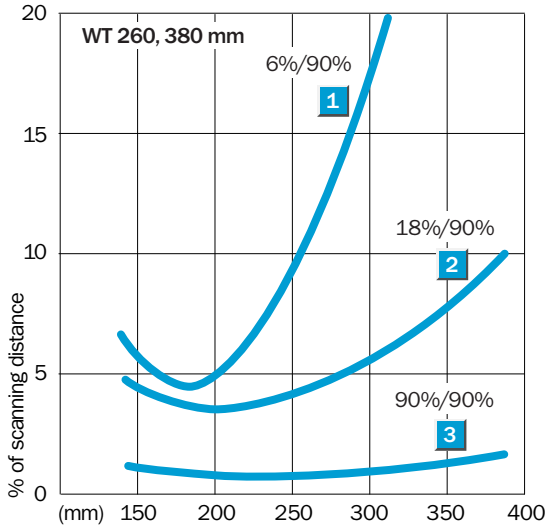
⑤ LED signal strength indicator, red
⑦ Adjustment of sensing range
⑧ Light/ dark rotary switch: L = light switching, D = dark switching
⑨ Time control
⑩ Terminals
⑪ Terminals
⑫ Red LED status indicator, switching output active

Connection diagram

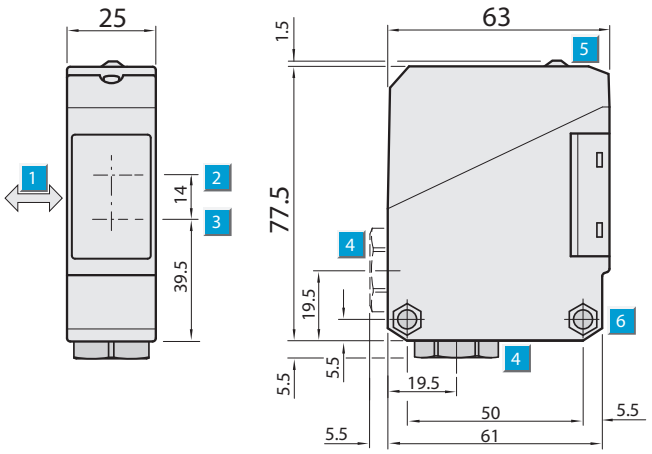
Cd-124



Characteristic curve



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 ø 5.2 mm, for M5 hexagon nuts on both sides

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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.”

SICK
Sensor Intelligence.