

WT260-P560

W260

COMPACT PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WT260-P560	1011541

Included in delivery: BEF-W260 (1)

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

Illustration may differ



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°

 $^{^{1)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾

 $^{^{1)}}$ Limit values when operated in short-circuit protected network: max. 8 A.

²⁾ Set sensing range at MAX.

 $^{^{}m 3)}$ Set sensing range at MIN.

 $^{^{4)}}$ Average service life: 100,000 h at TU = +25 °C.

 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

 $^{^{4)}}$ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

 $^{^{7)}}$ B = inputs and output reverse-polarity protected.

⁸⁾ C = interference suppression.

⁹⁾ D = outputs overcurrent and short-circuit protected.

¹⁰⁾ Reference voltage: 50 V DC.

 $^{^{11)}}$ Operating reserve < 50 %.

Ripple	≤ 5 V _{pp} ²⁾
Power consumption	35 mA ³⁾
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark selector
Output current I _{max} .	100 mA
Response time	≤ 2 ms ⁴⁾
Switching frequency	250 Hz ⁵⁾
Connection type	Male connector M12, 5-pin
Circuit protection	A ⁶⁾ B ⁷⁾ C ⁸⁾ D ⁹⁾
Protection class	II ¹⁰⁾
Weight	120 g
Alarm output	100 mA, permanently ¹¹⁾
Housing material	Plastic, ABS
Optics material	Plastic, PC
Enclosure rating	IP66
Items supplied	Mounting bracket BEF-W260
Test input sender off	TE to V _S
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

 $^{^{1)}}$ Limit values when operated in short-circuit protected network: max. 8 A.

Classifications

ECI@ss 5.0	27270904
ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904

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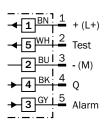
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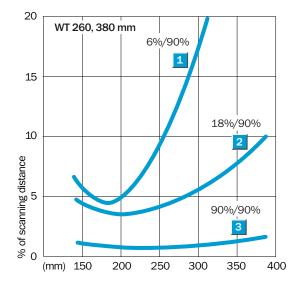
ECI@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

Connection diagram

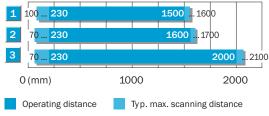
Cd-151



Characteristic curve



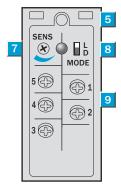
Sensing range diagram



Dependent on setting of scanning distance

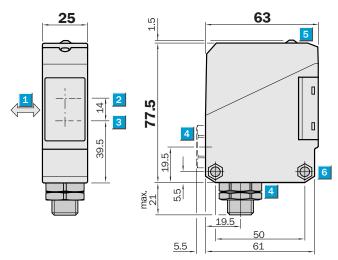
- Scanning range on black, 6 % remissionScanning range on gray, 18 % remission
- 3 Scanning range on white, 90 % remission

Adjustments possible



- ⑤ LED signal strength indicator, red
- Adjustment of sensing range
- S Light/ dark rotary switch: L = light switching, D = dark switching
- 9 Terminals

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

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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