WLL260-F440

WLL260

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
WLL260-F440	6020065

Included in delivery: BEF-W260 (1)

Other models and accessories ➜ www.sick.com/WLL260

Illustration may differ

Detailed technical data

Features

Sensor/ detection principle	Fiber-optic photoelectric sensor
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 ... 65 mm, Proximity system [1] [2] 0 mm ... 110 mm, Proximity system [1] [3] 0 mm ... 800 mm, Through-beam system [2]
Sensing range	0 mm ... 50 mm, Proximity system [2] 0 mm ... 90 mm, Proximity system [3] 0 mm ... 700 mm, Through-beam system [2]
Type of light	Visible red light
Light source	LED [4]
Adjustment	Potentiometer, 270°
Indication	LED

[1] Object with 90 % reflectance (referred to standard white, DIN 5033).

[2] LIS/LIB.

[3] With special fibre-optic cable.

[4] Average service life: 100,000 h at T_U = +25 °C.

Mechanics/electronics

Supply voltage	10 V DC … 30 V DC [1]
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	≤ 0.7 ms [4]
Switching frequency	700 Hz [5]
Connection type	Male connector M12, 4-pin
Circuit protection	A [6] B [7] C [8] D [9]
Protection class	II [10]
Weight	120 g
Housing material	Plastic, ABS
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.

[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.

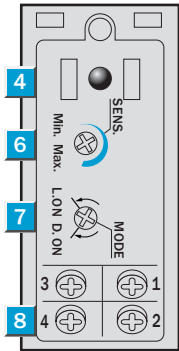[9] D = outputs overcurrent and short-circuit protected.

[10] Reference voltage: 50 V DC.

Classifications

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ECl@ss 5.0	27270905
ECl@ss 5.1.4	27270905
ECl@ss 6.0	27270905
ECl@ss 6.2	27270905
ECl@ss 7.0	27270905
ECl@ss 8.0	27270905
ECl@ss 8.1	27270905
ECl@ss 9.0	27270905

ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528

Adjustments possible

④ LED signal strength indicator, red
⑥ Sensitivity control
⑦ Light/ dark rotary switch: L = light switching, D = dark switching

Dimensional drawing (Dimensions in mm (inch))
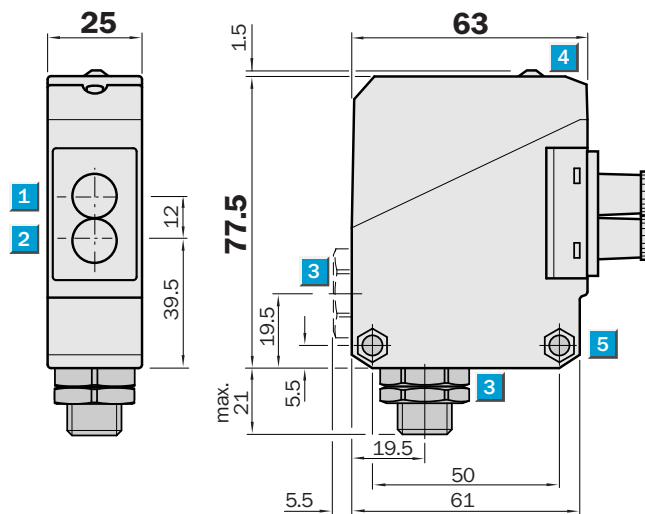
① Center of optical axis, receiver
② Center of optical axis, sender
③ Cable entry gland 1/2" PF for cable diameter 6 to 10 mm optionally at bottom or rear
④ LED reception indicator, red
⑤ Mounting hole ø 5.2 mm, for M5 hexagon nuts on both sides

Recommended accessories

Other models and accessories ➜ www.sick.com/WLL260

	Brief description	Type	Part no.
Other mounting accessories			
	Rail end piece for block mounting, stainless steel, mounting hardware included	BEF-EB01-W190	5313011
	Cutter for fibers, supplied with LL3	FC	5304141

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."

WORLDWIDE PRESENCE:

Contacts and other locations   **www.sick.com**

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