



fiber-optic sensors  
WLL260, Fiber-optic photoelectric sensor

WLL260-F440



**Model Name** > **WLL260-F440**  
**Part No.** > **6020065**



Illustration may differ

**At a glance**

- Fiber-optic cable for proximity version
- Fiber-optic cable for through-beam version
- Mounting bracket is included
- Light/dark switching
- M12 connector or easily accessible terminal connection compartment
- Models for 10 - 30 V DC or 12 - 240 V DC/ 24 – 240 V AC voltage supply

**Your benefits**

- A diverse range of fiber-optic cables provide reliable detection of objects, even in the tightest of spaces
- Controls are protected under a cover, reducing tampering
- Easily accessible terminal connection compartment simplifies electrical connection
- Assembly compatibility - DC devices and DC/AC devices available in the same design



**Features**

Dimensions (W x H x D):	25 mm x 77.8 mm x 63 mm
Sensing range max.::	0 mm ... 110 mm, proximity system, 0 mm ... 65 mm, proximity system, 0 mm ... 800 mm, through-beam system <sup>1) 2) 3) 4) 5)</sup>
Sensing range:::	0 mm ... 50 mm, proximity system, 0 mm ... 700 mm, through-beam system, 0 mm ... 90 mm, proximity system <sup>6) 7) 8)</sup>
Light source:	LED <sup>9)</sup>
Type of light:	Visible red light
Sensitivity adjustment:	Potentiometer, 270°
Indication:	LED
Light spot diameter (distance):	Depends on scanning range
Sensor/detection principle:	Fiber-optic photoelectric sensor
Housing design (light emission):	Rectangular

<sup>1) 3)</sup> Object with 90 % reflectance (referred to standard white DIN 5033) <sup>2) 5) 6) 8)</sup> LIS/LIB <sup>4) 7)</sup> With special fibre-optic cable <sup>9)</sup> Average service life of 100,000 h at T

A = +25 °C

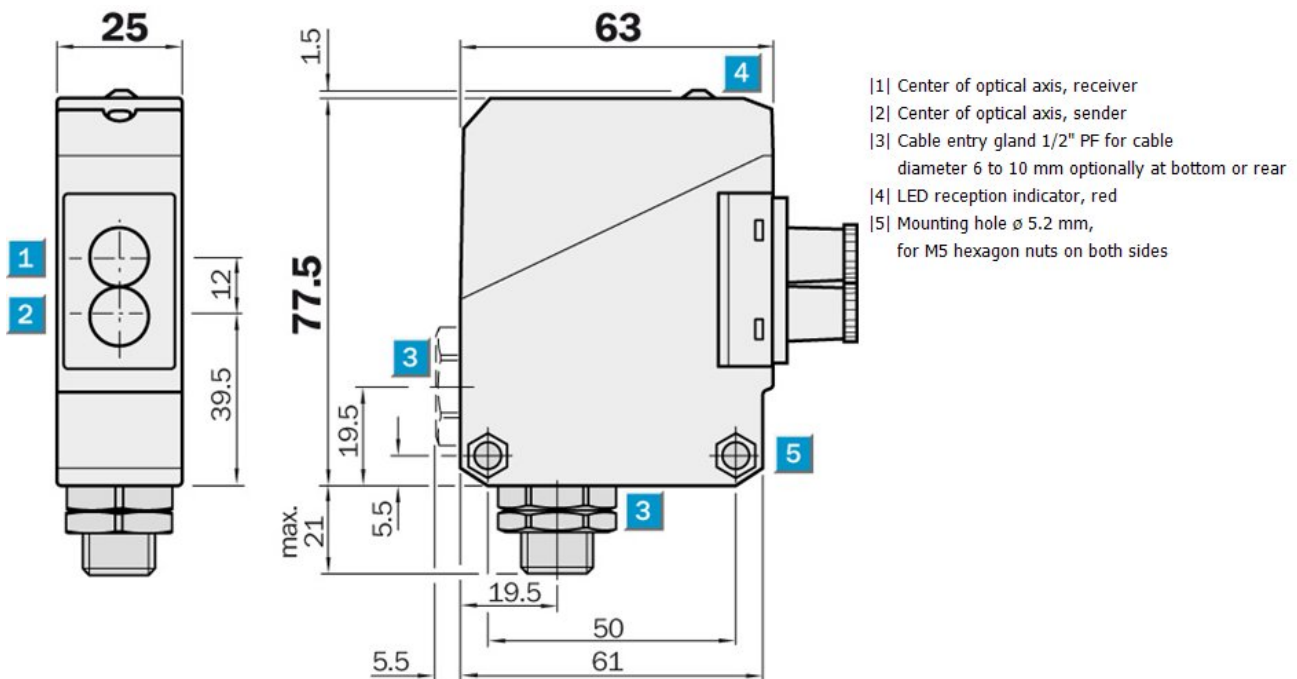
**Mechanics/electronics**

Enclosure rating:	IP 66
Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Ripple:	≤ 5 Vpp <sup>2)</sup>

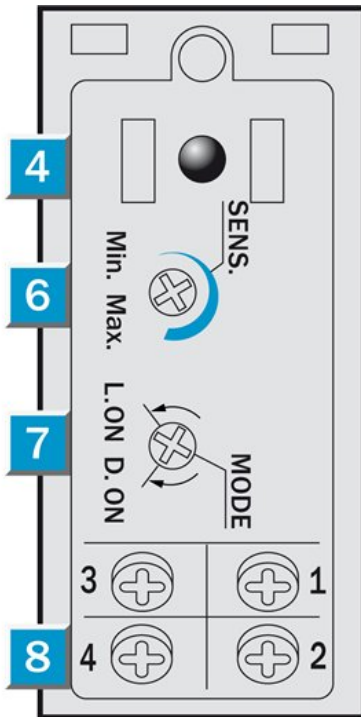
Power consumption:	≤ 35 mA <sup>3)</sup>
Output type:	PNP, Light/dark-switching, selectable via light/dark selector, open collector
Output current I <sub>max.</sub> :	100 mA
Response time:	≤ 0.7 ms <sup>4)</sup>
Switching frequency:	700 Hz <sup>5)</sup>
Connection type:	Connector M12, 4-pin
Protection class:	II <sup>6)</sup>
Circuit protection:::	A, B, C, D <sup>7) 8) 9) 10)</sup>
Housing material:	ABS
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
Weight:	120 g
Items supplied:	Mounting bracket BEF-W260
Test input sender off:	TE to VS
UL File-No.:	UL No. NRNT2.E128350 & cUL No. NRNT8.E128350

1) Limit values, operation in short-circuit protected network max. 8 A <sup>2)</sup> May not exceed or fall short of V<sub>S</sub> tolerances <sup>3)</sup> Without load <sup>4)</sup> Signal transit time with resistive load <sup>5)</sup> With light/dark ratio 1:1 <sup>6)</sup> Reference voltage 50 V DC <sup>7)</sup> A = V<sub>S</sub> connections reverse-polarity protected <sup>8)</sup> B = inputs and output reverse-polarity protected <sup>9)</sup> C = interference suppression <sup>10)</sup> D = outputs overcurrent and short-circuit protected

## Dimensional drawing

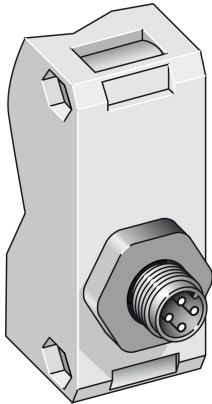


## Adjustments possible



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

## Connection type



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