



Fiber-optic sensors
WLL260, Fiber-optic photoelectric sensor

WLL260-E240



Model Name > **WLL260-E240**
Part No. > **6020063**



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 ^{1) 2) 3) 4) 5)}
Sensing range:::	0 mm ... 50 mm, proximity system, 0 mm ... 700 mm, through-beam system, 0 mm ... 90 mm, proximity system ^{6) 7) 8)}
Light source:	LED ⁹⁾
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

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

A = +25 °C

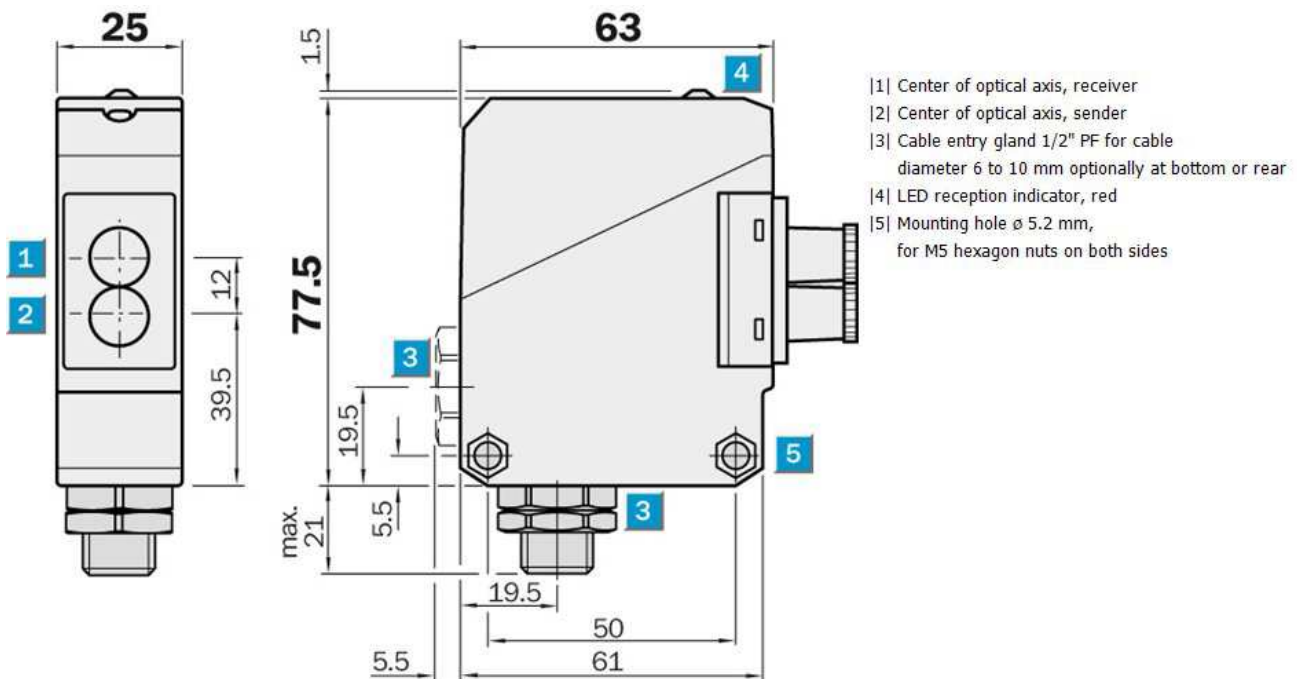
Mechanics/electronics

Enclosure rating:	IP 66
Supply voltage:	10 V DC ... 30 V DC ¹⁾
Residual ripple:	≤ 5 Vpp ²⁾

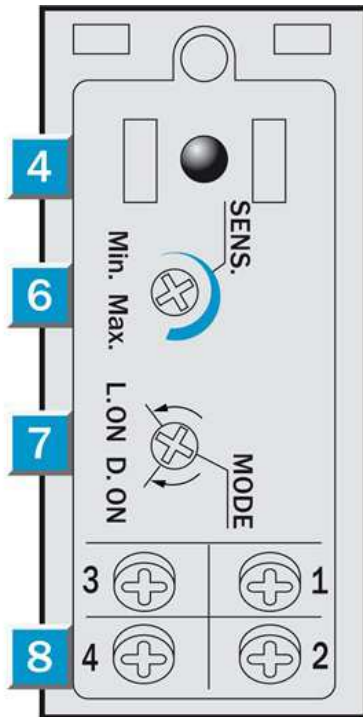
Power consumption:	$\leq 35 \text{ mA}$ ³⁾
Output type:	NPN, Light/dark-switching, selectable via light/dark selector, open collector
Output current I _{max.} :	100 mA
Response time:	$\leq 0.7 \text{ ms}$ ⁴⁾
Switching frequency:	700 Hz ⁵⁾
Electrical connection:	Cable gland
Protection class:	II ⁶⁾
Circuit protection:::	A, B, C, D ^{7) 8) 9) 10)}
Housing material:	ABS
Ambient temperature operation:	-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 0 V
UL File-No.:	UL No. NRNT2.E128350 & cUL No. NRNT8.E128350

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

Dimensional drawing

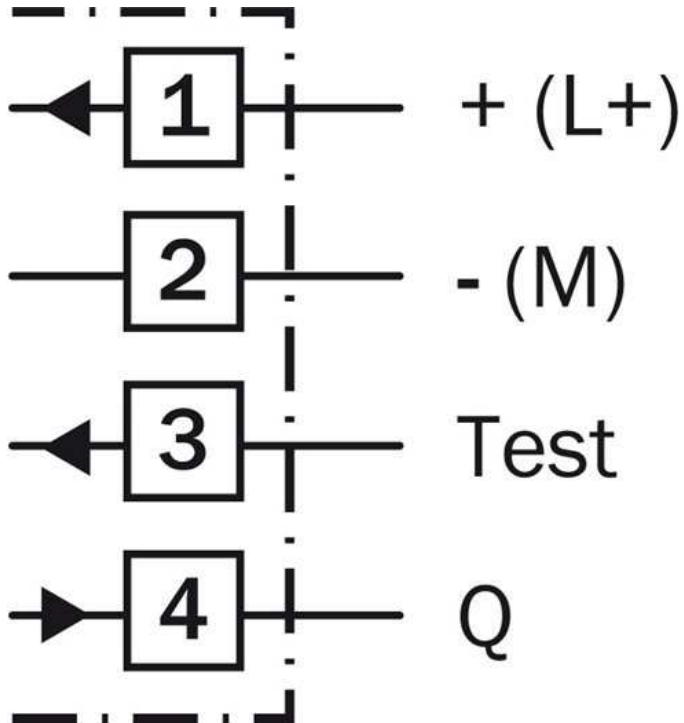


Adjustments possible

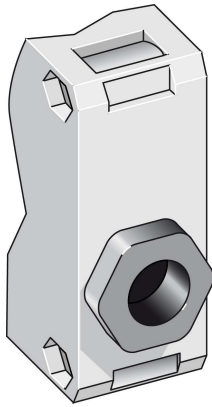


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |7| Light/ dark rotary switch L = light switching, D = dark switching

Connection diagram



Connection type



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