

WLL260-F440 WLL260

FIBER-OPTIC SENSORS





Ordering information

Туре	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

Device type	Fiber-optic amplifier
Device type detail	Stand-alone
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% remission (based on 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

ly voltage U _B	
ly voltage U _B	10 V DC 30 V DC ¹⁾
e	\leq 5 V_{pp}^{2}
nt consumption	35 mA ³⁾
hing output	PNP
hing mode	Light/dark switching
hing mode selector	Selectable via light/dark selector
onse time	\leq 0.7 ms $^{4)}$
hing frequency	700 Hz ⁵⁾
ection type	Male connector M12, 4-pin
it protection	A ⁶⁾ B ⁷⁾ C ⁸⁾ D ⁹⁾
ction class	II ¹⁰⁾
ht	120 g
ing material	Plastic, ABS
sure rating	IP66
supplied	Mounting bracket BEF-W260
nput sender off	TE to V _S
ent operating temperature	-25 °C +55 °C
ent temperature, storage	-40 °C +70 °C
le No.	NRNT2.E128350 & NRNT8.E128350

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

Safety-related parameters

MTTFD	850 years
DC _{avg}	0 %

Certificates

EU declaration of conformity	✓
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	√
China-RoHS	✓
cRUus certificate	1

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

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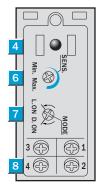
FIBER-OPTIC SENSORS

Photobiological safety (DIN EN 62471) cer-	✓
tificate	

Classifications

ECLASS 5.0	27270905
ECLASS 5.1.4	27270905
ECLASS 6.0	27270905
ECLASS 6.2	27270905
ECLASS 7.0	27270905
ECLASS 8.0	27270905
ECLASS 8.1	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270905
ECLASS 11.0	27270905
ECLASS 12.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528

Adjustments



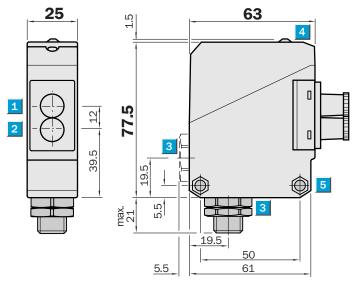
- ④ LED signal strength indicator, red
- 6 sensitivity control
- ① Light/ dark rotary switch: L = light switching, D = dark switching

Connection type



Connection diagram Cd-078

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 0 5.2 mm, for M5 hexagon nuts on both sides

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