

WLL160-F420

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WLL160-F420	6009990

Other models and accessories → www.sick.de/

Detailed technical data

Features

Dimensions (W x H x D)	12 mm x 59 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm ... 2,000 mm ¹⁾
Sensing range	0 mm ... 400 mm ¹⁾
Type of light	Visible red light
Light source	LED
Angle of dispersion	Approx. 65°
Wave length	660 nm

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

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	± 10 %
Power consumption	≤ 30 mA ¹⁾
Output type	PNP
Switching mode	Light/dark switching
Response time	≤ 0.35 ms ²⁾
Protection class	III
Weight	30 g
Housing material	ABS
Optics material	PMMA
Enclosure rating	IP 66
Ambient operating temperature	-25 °C ... +55 °C

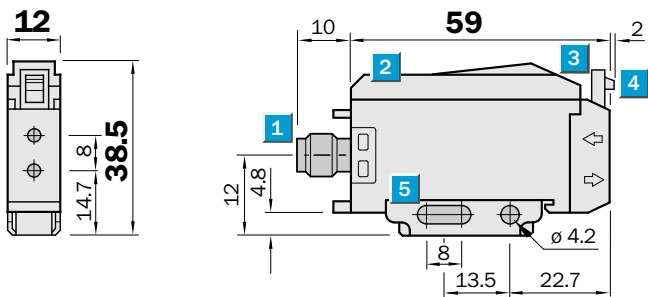
¹⁾ Without load.

²⁾ Signal transit time with resistive load.

Ambient storage temperature	-40 °C ... +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

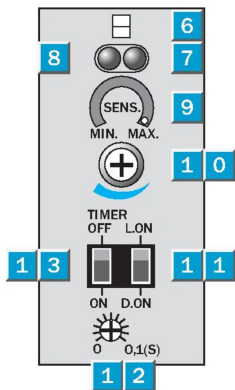
- 1) Without load.
- 2) Signal transit time with resistive load.

Dimensional drawing (dimensions in mm (inch))



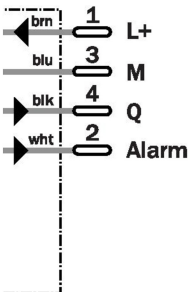
- ① Connection
- ② Protection Hood
- ③ Locking the fiber-optic cables (press down)
- ④ Releasing the fiber-optic cables (press lug)
- ⑤ Mounting bracket (included in delivery)

Adjustments possible



- ⑦ LED indicator red (lights when switching threshold is exceeded)
- ⑧ LED indicator green (lights when operating reserve is exceeded > 1.3)
- ⑨ Sensitivity scale 270°
- ⑩ Sensitivity adjustment (4 turns)
- ⑪ Light/dark selector
- ⑫ Switch-off delay 0...100ms

Connection diagram



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