

WT160-F480

PHOTOELECTRIC SENSORS





Illustration may differ

Ordering information

Туре	part no.
WT160-F480	6022822

Other models and accessories → www.sick.com/

Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Energetic
Dimensions (W x H x D)	11 mm x 38 mm x 23 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm 1,000 mm ¹⁾
Sensing range	0 mm 800 mm ¹⁾
Type of light	Visible red light
Light source	LED
Wave length	680 nm

 $^{^{1)}}$ Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Current consumption	25 mA ¹⁾
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark rotary switch
Response time	\leq 0.5 ms $^{2)}$
Connection type	Male connector M8, 4-pin
Housing material	Plastic, PBT
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C

¹⁾ Without load

²⁾ Signal transit time with resistive load.

UL File No.

NRNT2.E128350 & NRNT8.E128350

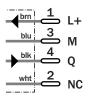
Classifications

ECLASS 5.0	27270903
ECLASS 5.1.4	27270903
ECLASS 6.0	27270903
ECLASS 6.2	27270903
ECLASS 7.0	27270903
ECLASS 8.0	27270903
ECLASS 8.1	27270903
ECLASS 9.0	27270903
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ETIM 5.0	EC001821
ETIM 6.0	EC001821
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

Connection type



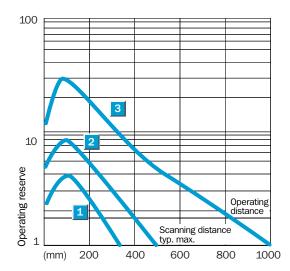
Connection diagram



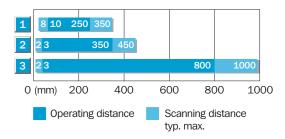
¹⁾ Without load.

²⁾ Signal transit time with resistive load.

Characteristic curve

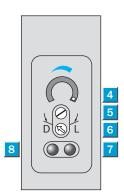


Sensing range diagram



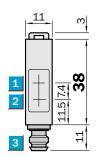
- 1 Scanning range on black, 6 % remission
- 2 Scanning range on grey, 18 % remission
- 3 Scanning range on white, 90 % remission

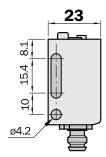
Adjustments



- 4 Scaling 270°
- (5) sensitivity control
- 6 Light/ dark rotary switch: L = light switching, D = dark switching
- $\ensuremath{{\mbox{\scriptsize ?\!।}}}$ Orange LED indicator : switching output active
- ® Green LED indicator: light reception with operating reserve >1.1 and < 0.9

Dimensional drawing





Dimensions in mm (inch)

- ① Center of optical axis, receiver
- ② Center of optical axis, sender
- ③ Connection

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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.

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For us, that is "Sensor Intelligence."

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