

WT160-F122





Ordering information

Туре	Part no.
WT160-F122	6022785

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	11 mm x 38 mm x 23 mm
Housing design (light emission)	Rectangular
Sensing range max.	4 mm 60 mm ¹⁾
Sensing range	8 mm 50 mm ¹⁾
Type of light	Visible red light
Light source	LED
Wave length	680 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	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	Cable, 2 m ³⁾
Cable material	PVC
Conductor cross-section	0.2 mm ²

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

Housing material	Plastic, PBT
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load.

Classifications

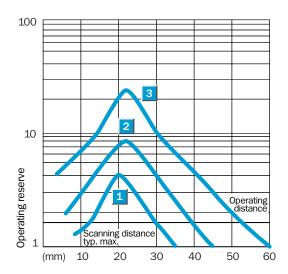
ECI@ss 5.0	27270904
ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904
ECI@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

Connection diagram

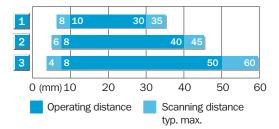


 ²⁾ Signal transit time with resistive load.
 3) Do not bend below 0 °C.

Characteristic curve

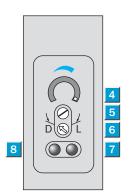


Sensing range diagram



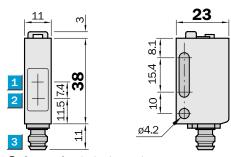


Adjustments possible



- 4 Scaling 270°
- ⑤ Sensitivity control
- 6 Light/ dark rotary switch: L = light switching, D = dark switching
- ⑦ Orange LED indicator : switching output active
- 8 Green LED indicator: light reception with operating reserve >1.1 and < 0.9

Dimensional drawing (Dimensions in mm (inch))



- Center of optical axis, receiver
 Center of optical axis, sender
 Connection

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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For us, that is "Sensor Intelligence."

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