

WL160T-N212

PHOTOELECTRIC SENSORS





Ordering information

Туре	part no.
WL160T-N212	6020480

Other models and accessories → www.sick.com/

Illustration may differ

Detailed technical data

Features

Functional principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	11 mm x 23 mm x 38 mm
Housing design (light emission)	Rectangular
Sensing range max.	0.03 m 2.2 m ¹⁾
Sensing range	0.03 m 1.5 m ¹⁾
Type of light	Visible red light
Light source	LED
Wave length	665 nm

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Current consumption	40 mA ¹⁾
Switching output	NPN
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark rotary switch
Response time	\leq 0.2 ms $^{2)}$
Connection type	Cable, 2 m ³⁾
Cable material	PVC
Conductor cross section	0.2 mm ²
Housing material	Plastic, PBT
Optics material	Plastic, PMMA
Enclosure rating	IP69K

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

^{3) 5} m available on request. Do not bend below 0 °C.

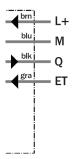
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load.

Classifications

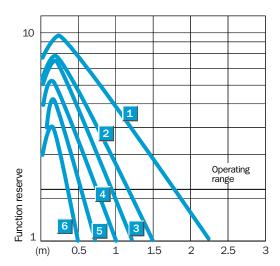
ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram

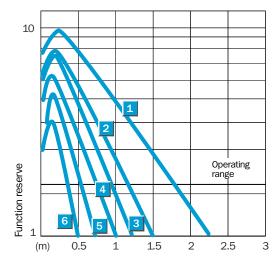


Signal transit time with resistive load.
5 m available on request. Do not bend below 0 °C.

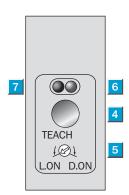
Characteristic curve



Light spot size



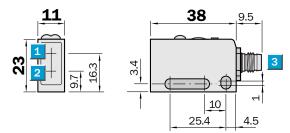
Adjustments



- 4 Teach-in button
- ⑤ Light/ dark rotary switch: L = light switching, D = dark switching

- **(6)** Orange LED indicator : switching output active
- 7 green LED indicator: light reception with operating reserve >1.1

Dimensional drawing



Dimensions in mm (inch)

- ① Center of optical axis, receiver
- ② Center of optical axis, sender
- 3 Connector M8, 3/4-pin or connection cable

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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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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