



WL11-N130

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WL11-N130	1018681

Other models and accessories → www.sick.com/

Detailed technical data

Features

Sensor/ detection principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	12 mm x 40 mm x 88 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m ... 7 m ¹⁾
Sensing range	0 m ... 5 m ¹⁾
Type of light	Visible red light
Light source	LED

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 5 V _{pp}
Power consumption	≤ 40 mA ¹⁾
Switching output	NPN
Output function	Complementary
Switching mode	Light/dark switching
Response time	≤ 625 μs ²⁾
Connection type	Cable, 2 m ³⁾
Cable material	PVC
Conductor cross-section	0.25 mm ²
Cable diameter	Ø 5 mm

¹⁾ Without load.

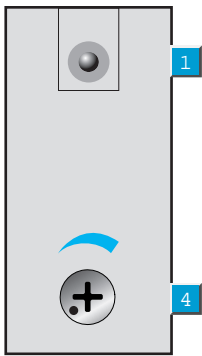
²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP65
Ambient operating temperature	-20 °C ... +60 °C
Ambient storage temperature	-20 °C ... +75 °C

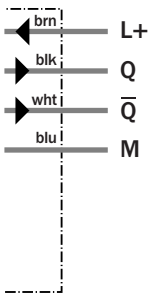
- 1) Without load.
- 2) Signal transit time with resistive load.
- 3) Do not bend below 0 °C.

Adjustments possible

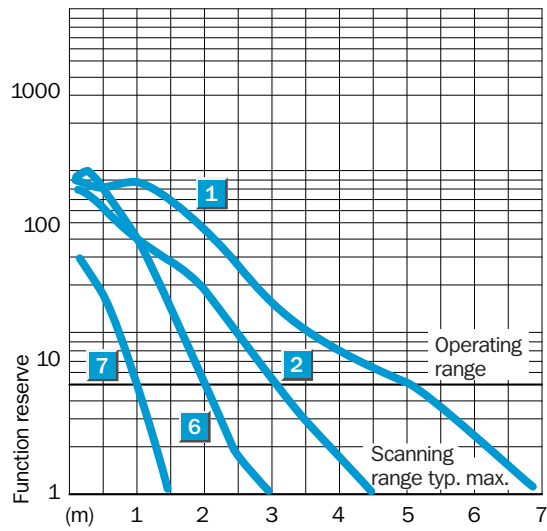


- ① Receive indicator
- ④ Sensitivity control

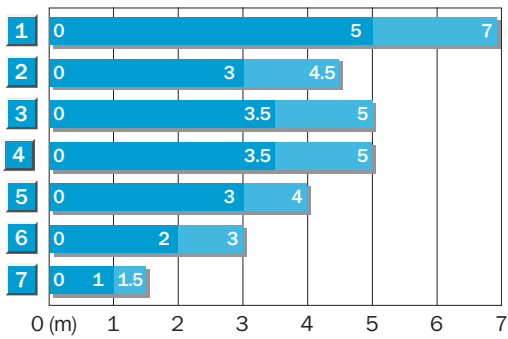
Connection diagram



Characteristic curve



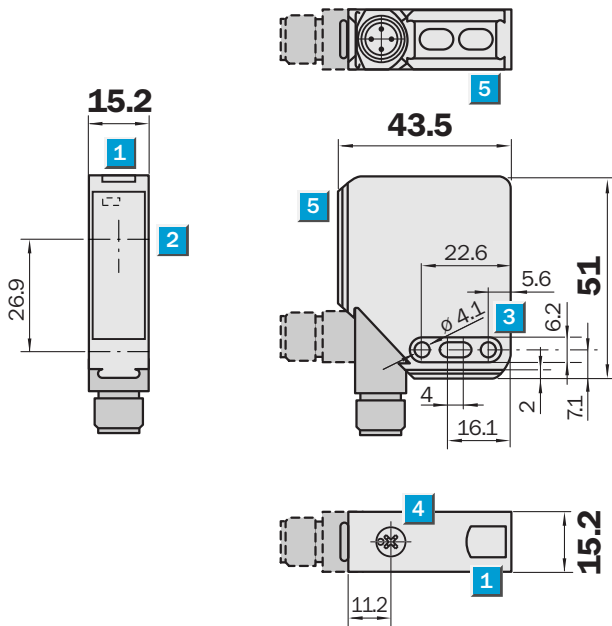
Sensing range diagram



■ Operating range ■ Scanning range typ. max.

Reflector type	Operating range
1 PL 80 A	0 – 5.0 m
2 C 110	0 – 3.0 m
3 PL 50 A	0 – 3.5 m
4 PL 40 A	0 – 3.5 m
5 PL 30 A	0 – 3.0 m
6 PL 20 A	0 – 2.0 m
7 Reflective tape	0 – 1.0 m

Dimensional drawing (Dimensions in mm (inch))



SICK AT A GLANCE

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.

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com