



DATA SHEET

WL11-R130

Photoelectric sensors

SICK

Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

WL11-R130

ORDERING INFORMATION

Type	part no.
WL11-R130	1026232

Further device versions and accessories at www.sick.com/

DETAILED TECHNICAL DATA

FEATURES

Functional 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.	7 m ¹⁾
Sensing range	≤ 5 m ¹⁾
Type of light	Visible red light
Light source	LED

¹⁾ Reflector PL80A.

MECHANICS/ELECTRONICS

Supply voltage	24 V AC/DC ... 240 V AC/DC
Switching output	Relay
Switching mode	Dark switching
Response time	≤ 25 ms ¹⁾
Connection type	Cable, 2 m ²⁾
Conductor cross section	0.25 mm ²
Cable diameter	Ø 5 mm
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP65
Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +70 °C

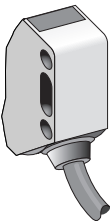
¹⁾ Signal transit time with resistive load.

²⁾ Do not bend below 0 °C.

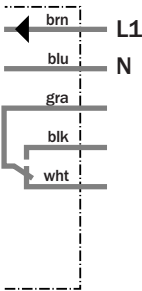
SAFETY-RELATED PARAMETERS

MTTF _D	1,226 years
DC _{avg}	0 %

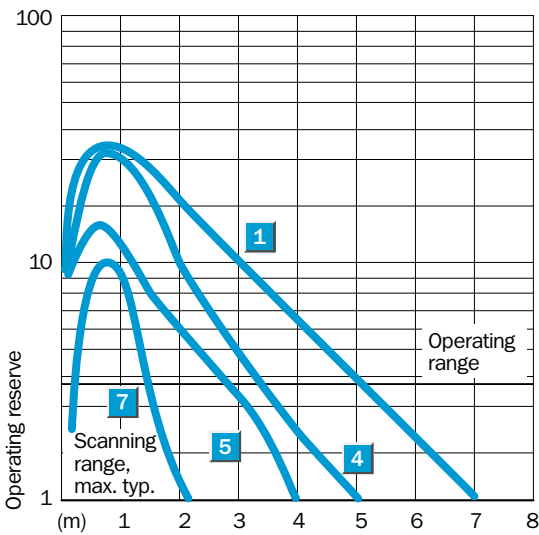
CONNECTION TYPE



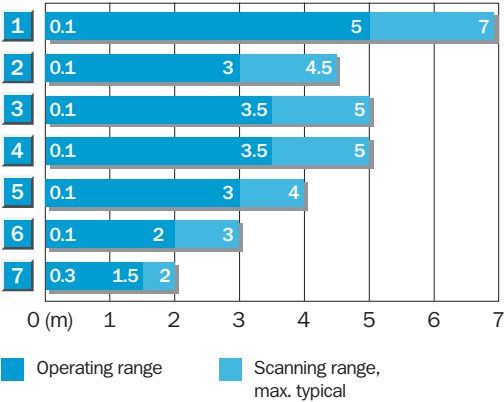
CONNECTION DIAGRAM



CHARACTERISTIC CURVE

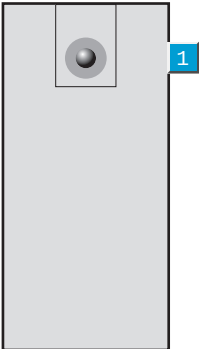


SENSING RANGE DIAGRAM



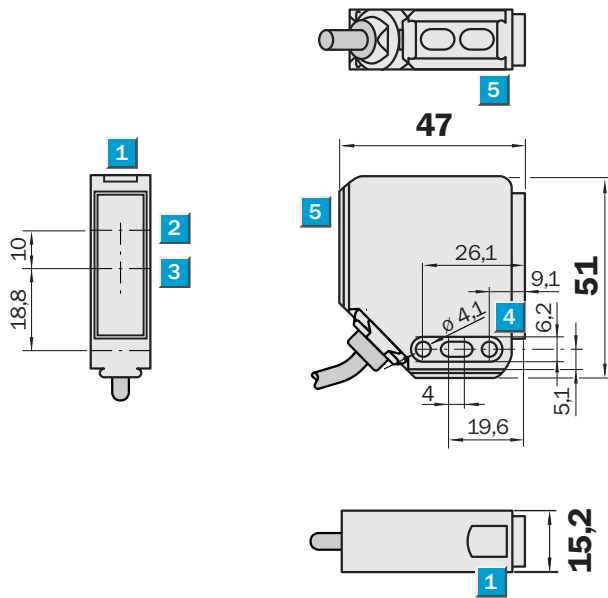
	Reflector type	Operating range
1	PL 80 A	0.1 – 5.0 m
2	C 110	0.1 – 3.0 m
3	PL 50 A	0.1 – 3.5 m
4	PL 40 A	0.1 – 3.5 m
5	PL 30 A	0.1 – 3.0 m
6	PL 20 A	0.1 – 2.0 m
7	Reflective tape	0.3 – 1.5 m

ADJUSTMENTS



① LED signal strength indicator

DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① LED signal strength indicator
- ② Center of optical axis, sender
- ③ Center of optical axis, receiver
- ④ Mounting hole, Ø 4.1 mm
- ⑤ Dovetail

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1026232



SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK
Sensor Intelligence