SICK.COM

DATA SHEET

WL12-2P130

Photoelectric sensors

SICK Sensor Intelligence

Illustration may differ

PHOTOELECTRIC SENSORS

WL12-2P130

ORDERING INFORMATION

Type	part no.
WL12-2P130	1016096

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)	15 mm x 49 mm x 41.5 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
Adjustment	Potentiometer

[1] Reflector PL80A.

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	< 5 V_{pp}
Current consumption	30 mA [1]
Switching output	PNP
Switching mode	Light/dark switching
Response time	≤ 330 µs [2]
Connection type	Cable, 2 m [3]
Conductor cross section	0.25 mm²
Housing material	Metal, zinc diecast
Optics material	Plastic, PMMA

[1] Without load.

[2] Signal transit time with resistive load.

[3] Do not bend below 0 °C.

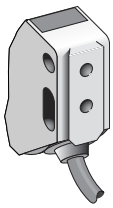
Enclosure rating	IP67
Ambient operating temperature	–40 °C ... +60 °C
Ambient temperature, storage	–40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

[1] Without load.

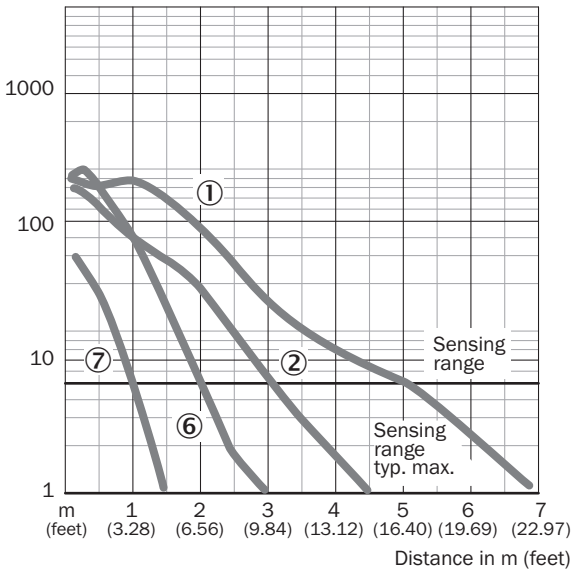
[2] Signal transit time with resistive load.

[3] Do not bend below 0 °C.

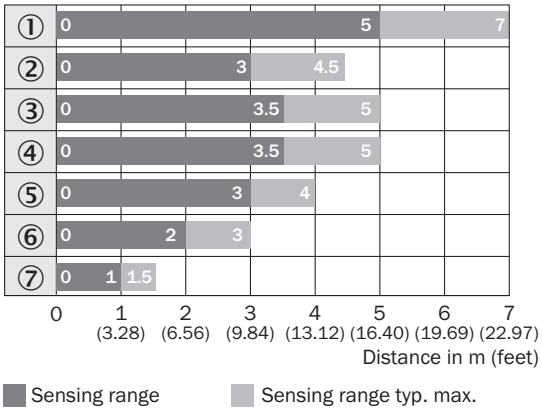
CONNECTION TYPE



CHARACTERISTIC CURVE



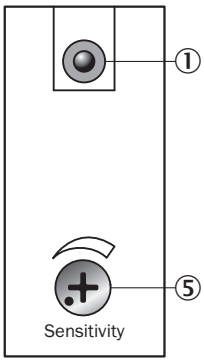
SENSING RANGE DIAGRAM



Reflector type

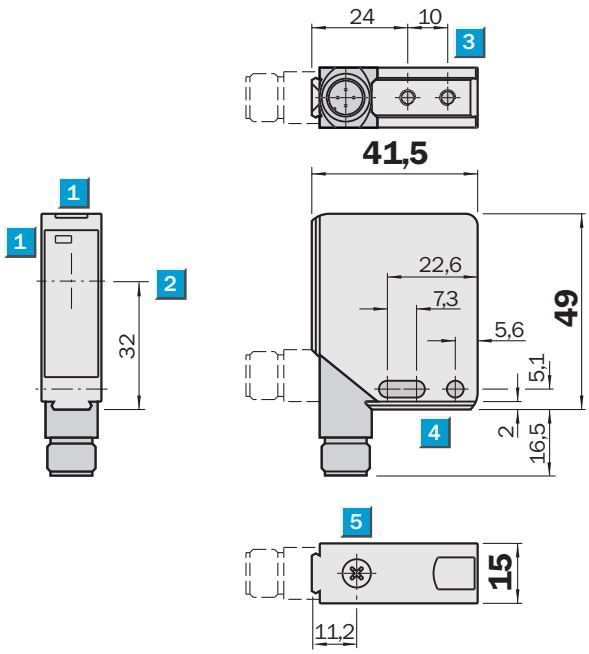
① PL80A
② C110
③ PL50A
④ PL40A
⑤ PL30A
⑥ PL20A
⑦ Reflective tape

ADJUSTMENTS



① Receive indicator
⑤ sensitivity control

DIMENSIONAL DRAWING



Dimensions in mm (inch)
① LED signal strength indicator
② Center of optical axis
③ M4 threaded mounting hole – 4 mm depth
④ Mounting hole, Ø 4.2 mm
⑤ sensitivity control

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/1016096

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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

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