



DATA SHEET

WS/WE9-2P430

Photoelectric sensors

SICK

Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

WS/WE9-2P430

ORDERING INFORMATION

Type	part no.
WS/WE9-2P430	1019261

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

DETAILED TECHNICAL DATA

FEATURES

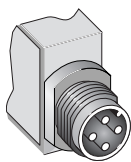
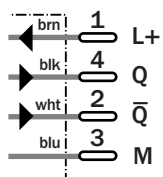
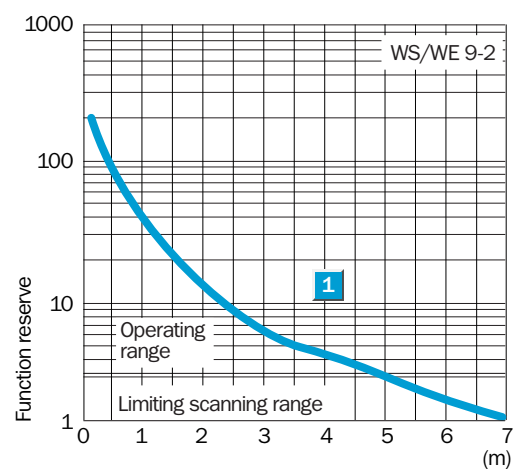
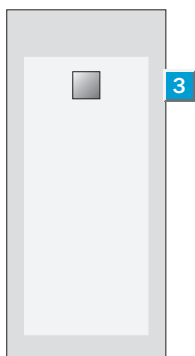
Functional principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	12 mm x 40 mm x 22 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m ... 7 m
Sensing range	0 m ... 5 m
Type of light	Visible red light
Light source	LED

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	≤ 2.5 ms ²⁾
Connection type	Male connector M12, 4-pin
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP69K
Ambient operating temperature	-40 °C ... +60 °C
Ambient temperature, storage	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

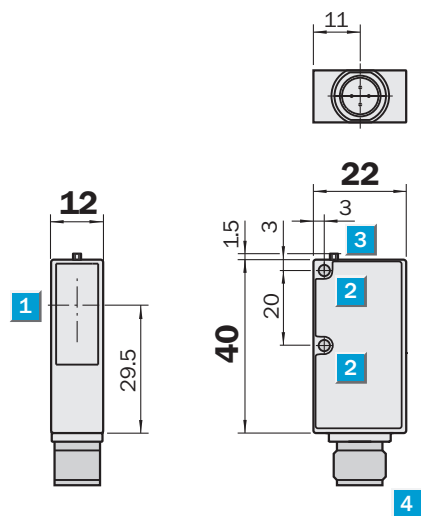
¹⁾ Without load.

²⁾ Signal transit time with resistive load.

CONNECTION TYPE**CONNECTION DIAGRAM****CHARACTERISTIC CURVE****ADJUSTMENTS**

③ LED signal strength indicator

DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Center of optical axis
- ② mounting hole Ø 3.2 mm
- ③ LED signal strength indicator
- ④ M12 male connector, 4-pin or 2 m connecting cable or M8 male connector, 4-pin or 120 mm cable with M12 male connector, 4-pin

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/1019261



SICK AG
WALDKIRCH
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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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