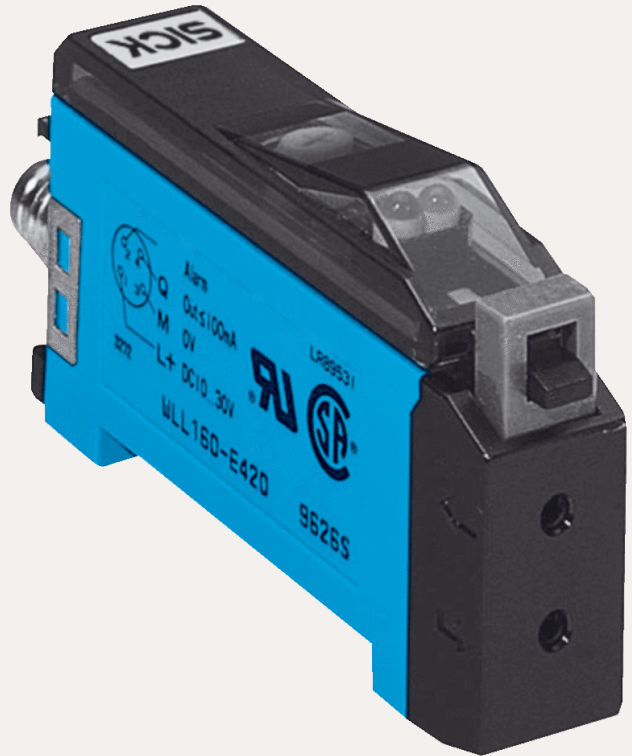


SICK.COM



DATA SHEET

WLL160-E122

Photoelectric sensors

SICK

Sensor Intelligence

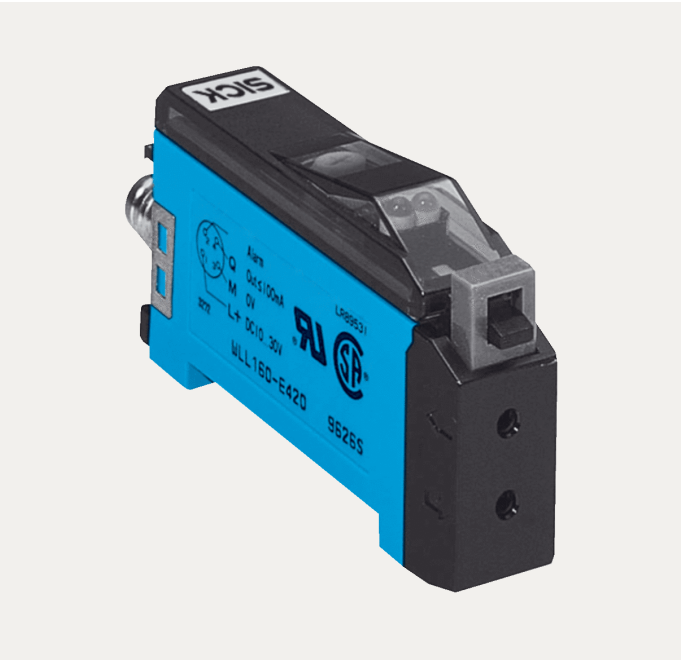


Illustration may differ

PHOTOELECTRIC SENSORS

WLL160-E122

ORDERING INFORMATION

Type	part no.
WLL160-E122	6009981

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

DETAILED TECHNICAL DATA

FEATURES

Dimensions (W x H x D)	12 mm x 38.5 mm x 59 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm ... 2,000 mm ¹⁾
Sensing range	0 mm ... 400 mm ¹⁾
Type of light	Visible red light
Light source	LED
Wave length	660 nm

¹⁾ Object with 90% remission (based on standard white, DIN 5033).

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	± 10 %
Current consumption	30 mA ¹⁾
Switching output	NPN
Switching mode	Light/dark switching
Response time	≤ 0.35 ms ²⁾
Connection type	Cable, 2 m ³⁾
Cable material	PVC
Conductor cross section	0.2 mm ²
Housing material	Plastic, ABS
Optics material	Plastic, PMMA

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

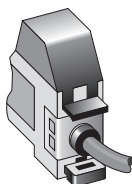
Enclosure rating	IP67
Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load.

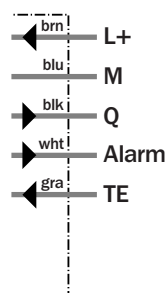
²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

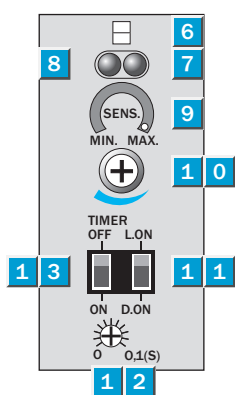
CONNECTION TYPE



CONNECTION DIAGRAM

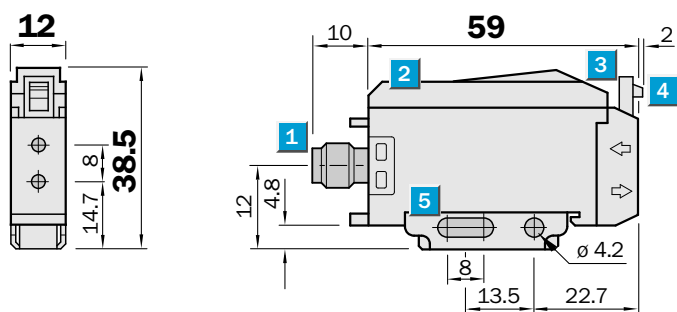


ADJUSTMENTS



- ⑦ red LED (lights up when switching threshold is exceeded)
- ⑧ green LED indicator (lights up when operating reserve is exceeded >1.3)
- ⑨ Sensitivity scale 270°
- ⑩ Sensitivity adjustment (4 turns)
- ⑪ Light/dark selector
- ⑫ Switch-off delay 0...100ms

DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Connection
- ② Protection Hood
- ③ Locking the fiber-optic cables (press down)
- ④ Releasing the fiber-optic cables (press lug)
- ⑤ Mounting bracket (included in delivery)

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/6009981



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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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