



Photoelectric sensors
W11-2, Through-beam photoelectric sensor

WSE11-2K2430



Model Name > [WSE11-2K2430](#)
Part No. > [1057575](#)



Illustration may differ

At a glance

- Through-beam photoelectric sensor
- Rugged housing for industrial use
- PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting - standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- Operating distance up to 20 m

Your benefits

- Custom ASIC provides reliable object detection, large sensing ranges and high reserve levels
- High immunity to optical interference reduces false readings and downtime
- PinPoint LED technology provides bright, small, precise light spots and enables quick and easy sensor alignment, first-class switching characteristics and reliable object detection
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Highly visible 360° status LEDs provide quick and easy setup without additional personnel or costly training
- Easy installation using SICK accessories



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Dimensions (W x H x D):	15.6 mm x 48.5 mm x 42 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 20 m
Sensing range:	0 m ... 15 m
Type of light:	Visible red light
Light source:	LED
Wave length:	633 nm
Angle of dispersion:	Ca. 1.5 °
Light spot size (distance):	Ø 220 mm (15 m)

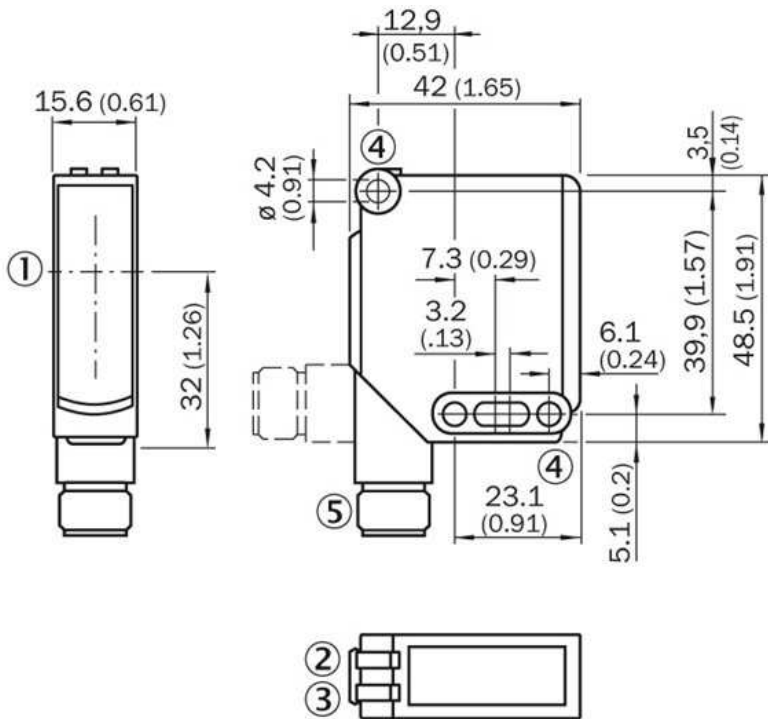
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	≤ 5 Vpp ²⁾

Power consumption, sender:	≤ 25 mA ³⁾
Power consumption, receiver:	≤ 20 mA ⁴⁾
Output type:	PNP ⁵⁾
Output function:	Complementary
Switching mode:	Light/dark switching ⁶⁾
Signal voltage PNP HIGH/LOW:	U _v - 2.5 V / approx. 0 V
Output current I _{max.} :	100 mA
Response time:	≤ 2.5 ms ⁷⁾
Switching frequency:	200 Hz ⁸⁾
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, C, D ^{9) 10) 11)}
Protection class:	II
Weight:	120 g
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 66 IP 67 IP 69K
Test input sender off:	TE to 0 V
Ambient operating temperature:	-30 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

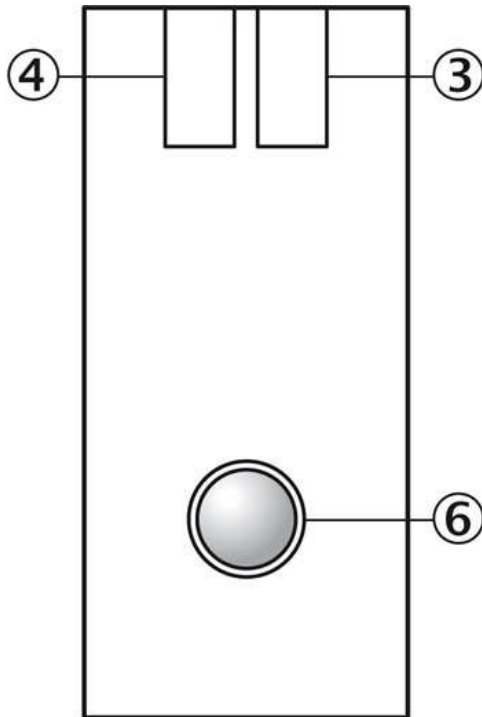
¹⁾ Limit values, operation in short-circuit protected network max. 8 A over ⁷⁾ Signal transit time with resistive load
²⁾ May not exceed or fall short of V_S tolerances
^{3) 4)} Without load
^{5) 6)} Pin 2 / Pin 4 swapped
⁸⁾ With light/dark ratio 1:1
⁹⁾ A = V_S connections reverse-polarity protected
¹⁰⁾ C = interference suppression
¹¹⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



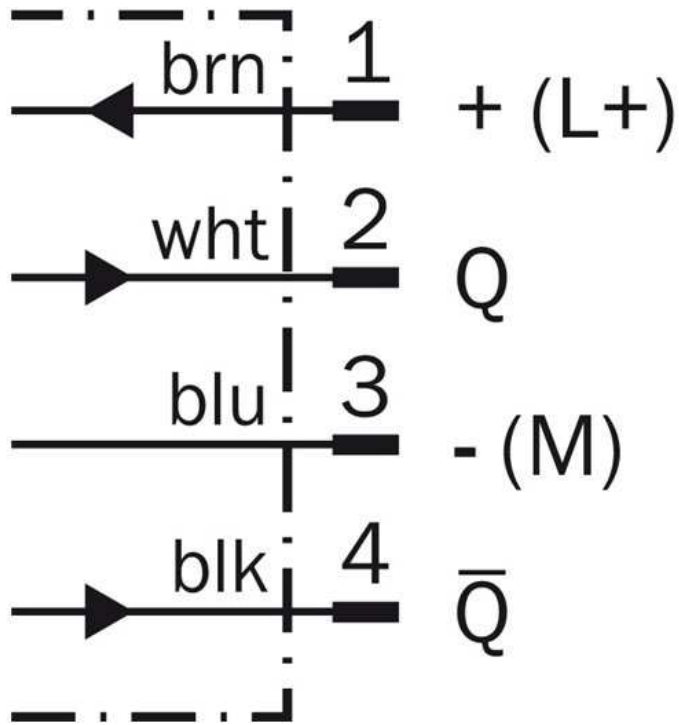
- |1| Center of optical axis
- |2| Status indicator LED green: power on
- |3| Status indicator LED, yellow: Status of received light beam
- |4| Mounting hole \varnothing 4.2 mm
- |5| M12 connector, 4-pin or cable

Adjustments possible

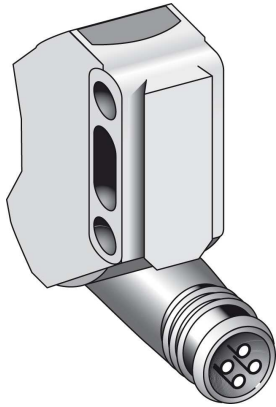


- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam
- |6| Adjustment sensing range: single teach button

Connection diagram



Connection type



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