



Photoelectric sensors  
W11-2, Through-beam photoelectric sensor

WSE11-2P2430S05



**Model Name** > [WSE11-2P2430S05](#)  
**Part No.** > [1055057](#)



*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 ... 1.7 m
Sensing range::	0 m ... 1.2 m <sup>1) 2)</sup>
Type of light:	Visible red light
Light source:	LED <sup>3)</sup>
Angle of dispersion:	Ca. 1.5 °
Special features:	ON delay, Slotted diaphragm
Light spot size (distance):	Ø 220 mm (15 m)
On delay:	0.5 s

<sup>1)</sup> Slotted diaphragm 1 mm in front of receiver <sup>2)</sup> Slotted diaphragm 1.5 mm in front of sender <sup>3)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

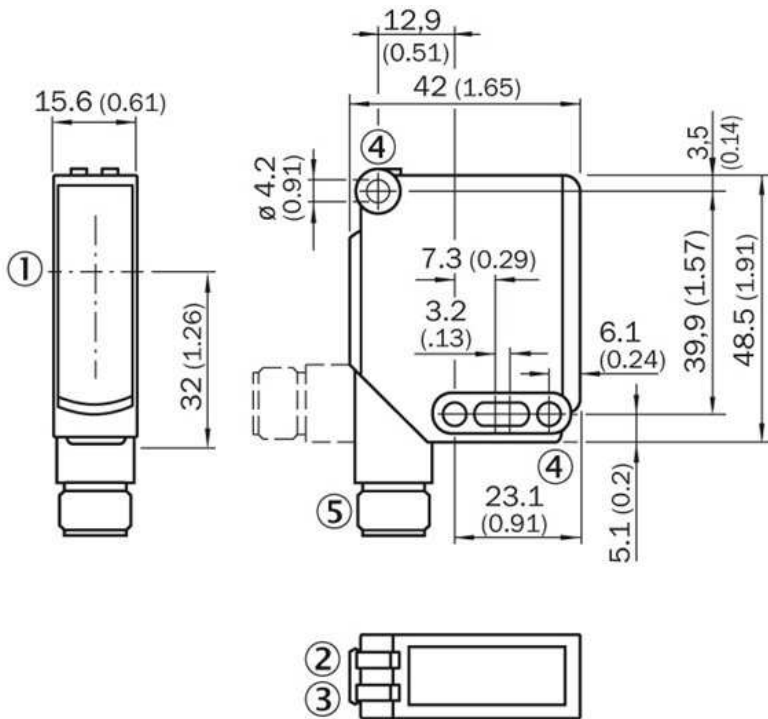
## Mechanics/electronics

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Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Ripple:	≤ 5 Vpp <sup>2)</sup>
Power consumption, sender:	≤ 25 mA <sup>3)</sup>
Power consumption, receiver:	≤ 20 mA <sup>4)</sup>
Output type:	PNP
Output function:	Complementary
Switching mode:	Light/dark switching
Output current I <sub>max.</sub> :	100 mA
Response time:	≤ 2.5 ms <sup>5)</sup>
Switching frequency:	200 Hz <sup>6)</sup>
Connection type:	Connector M12
Circuit protection:::	A, C, D <sup>7) 8) 9)</sup>
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
Part number of individual components:	Receiver, WE11-2P2430S05, 2061887, Sender, WS11-2D2430S05, 2061886
UL File No.:	NRKH.E181493 & NRKH7.E181493
Signal voltage PNP HIGH/LOW:	U <sub>v</sub> - 2.5 V / approx. 0 V

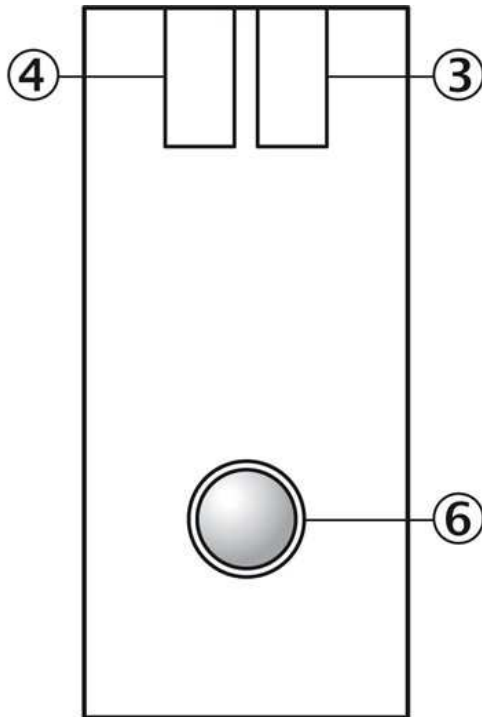
<sup>1)</sup> Limit values, operation in short-circuit protected network max. 8 A <sup>2)</sup> May not exceed or fall short of V<sub>S</sub> tolerances <sup>3) 4)</sup> Without load <sup>5)</sup> Signal transit time with resistive load <sup>6)</sup> With light/dark ratio 1:1 <sup>7)</sup> A = V<sub>S</sub> connections reverse-polarity protected <sup>8)</sup> C = interference suppression <sup>9)</sup> D = outputs overcurrent and short-circuit protected

## Dimensional drawing



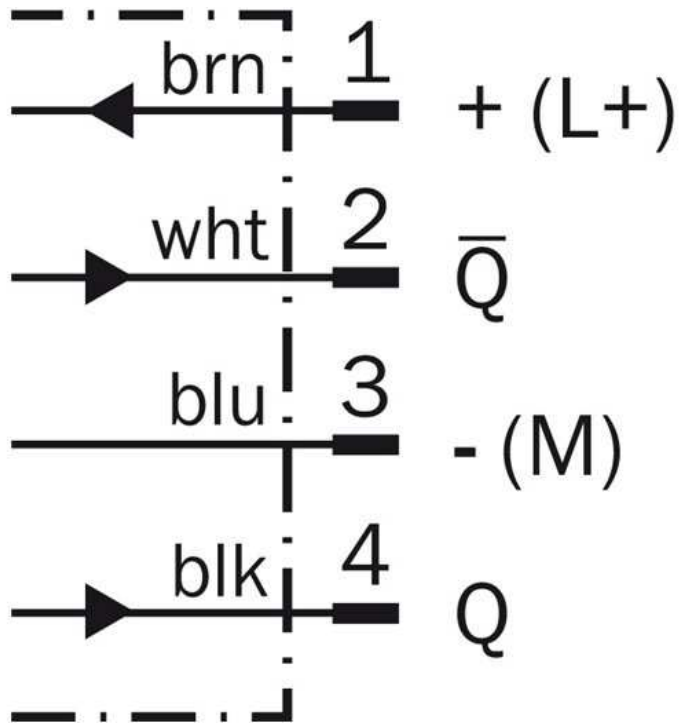
- [1] Center of optical axis
- [2] Status indicator LED green: power on
- [3] Status indicator LED, yellow: Status of received light beam
- [4] Mounting hole  $\varnothing$  4.2 mm
- [5] M12 connector, 4-pin or cable

## 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-in button

Connection diagram

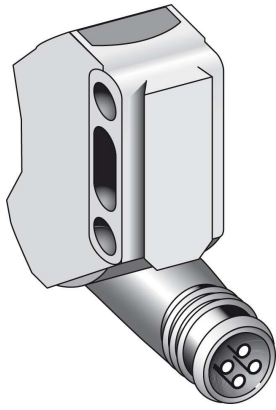


Characteristic curve

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Connection type

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