



# WLL24-X4301

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	Part no.
WLL24-X4301	1012711

Other models and accessories → [www.sick.com/](http://www.sick.com/)

## Detailed technical data

### Features

<b>Dimensions (W x H x D)</b>	27 mm x 87.5 mm x 65 mm
<b>Housing design (light emission)</b>	Rectangular
<b>Sensing range max.</b>	0 mm ... 25 mm <sup>1)</sup>
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<b>Type of light</b>	Visible red light
<b>Light source</b>	LED
<b>Adjustment</b>	Potentiometer Potentiometer

<sup>1)</sup> Object with 90 % reflectance (referred to standard white, DIN 5033).

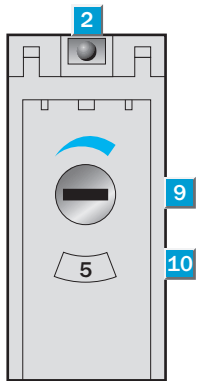
### Mechanics/electronics

<b>Supply voltage</b>	5 V DC ... 13.5 V DC
<b>Power consumption</b>	50 mA <sup>1)</sup>
<b>Switching mode</b>	Light switching
<b>Response time</b>	≤ 10 ms <sup>2)</sup>
<b>Connection type</b>	Male connector M12, 4-pin
<b>Housing material</b>	Metal, Zinc diecast
<b>Optics material</b>	Plastic, PMMA
<b>Enclosure rating</b>	IP65
<b>Ambient operating temperature</b>	-20 °C ... +50 °C
<b>Ambient storage temperature</b>	-25 °C ... +70 °C
<b>UL File No.</b>	Ex II 2G EEx ia IIC T4, ATEX Nr. PTB03 ATEX 2104

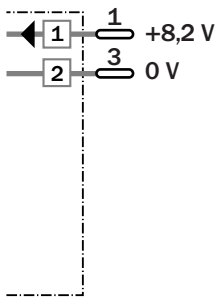
<sup>1)</sup> Without load.

<sup>2)</sup> Signal transit time with resistive load.

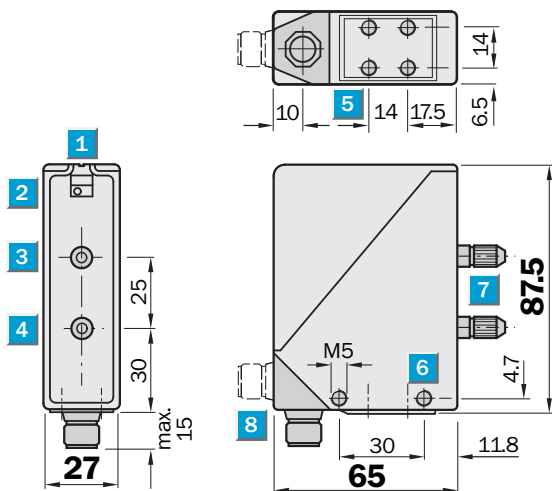
Adjustments possible



Connection diagram



Dimensional drawing (Dimensions in mm (inch))



- ① Alignment sight
- ② LED signal strength indicator
- ③ Center of optical axis, receiver
- ④ Center of transmitter's optical axis
- ⑤ M5 threaded mounting hole, 8 mm deep
- ⑥ Threaded mounting hole M5
- ⑦ Connector for fibre-optic cable
- ⑧ PG connector or M12 male connector, rotatable

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)