



# WSE12-3N2411S37

## W12-3

SMALL PHOTOELECTRIC SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WSE12-3N2411S37	1045357

Other models and accessories → [www.sick.com/W12-3](http://www.sick.com/W12-3)

Detailed technical data

Features

<b>Functional principle</b>		Through-beam photoelectric sensor
<b>Sensing range max.</b>		0 m ... 5 m
<b>Sensing range</b>		0 m ... 4 m
<b>Emitted beam</b>		
	Light source	LED <sup>1)</sup>
	Type of light	Infrared light
	Light spot size (distance)	Ø 750 mm (5 m)
<b>Key LED figures</b>		
	Wave length	850 nm
<b>Adjustment</b>		Potentiometer, 5 turns
<b>Angle of dispersion</b>		Approx. 4°
<b>Part number of individual components</b>		2046741 WS12-3D2410S36 2056043 WE12-3N2411S37

<sup>1)</sup> Average service life: 100,000 h at T<sub>U</sub> = +25 °C.

Safety-related parameters

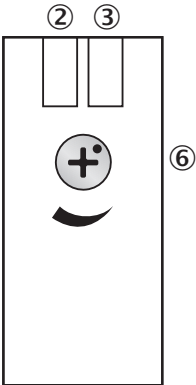
<b>MTTF<sub>D</sub></b>	826 years
<b>DC<sub>avg</sub></b>	0 %



<b>ECLASS 5.1.4</b>	27270901
<b>ECLASS 6.0</b>	27270901
<b>ECLASS 6.2</b>	27270901
<b>ECLASS 7.0</b>	27270901
<b>ECLASS 8.0</b>	27270901
<b>ECLASS 8.1</b>	27270901
<b>ECLASS 9.0</b>	27270901
<b>ECLASS 10.0</b>	27270901
<b>ECLASS 11.0</b>	27270901
<b>ECLASS 12.0</b>	27270901
<b>ETIM 5.0</b>	EC002716
<b>ETIM 6.0</b>	EC002716
<b>ETIM 7.0</b>	EC002716
<b>ETIM 8.0</b>	EC002716
<b>UNSPSC 16.0901</b>	39121528

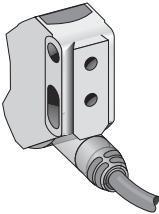
Adjustments

WL12-3, WSE12-3



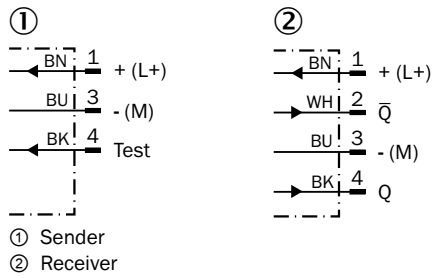
- ② LED indicator yellow: Status of received light beam
- ③ LED indicator green: Supply voltage active
- ⑥ Sensitivity control: potentiometer

Connection type



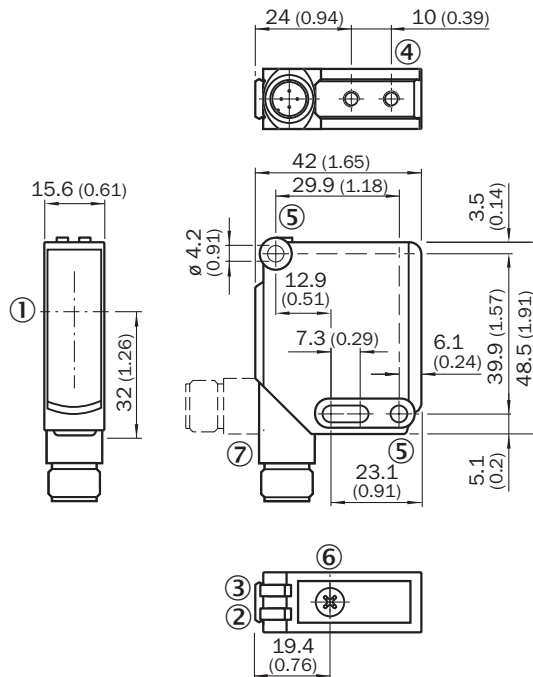
## Connection diagram

Cd-077



## Dimensional drawing (Dimensions in mm (inch))


WL12-3, WSE12-3



- ① Optical axis
- ② LED indicator yellow: Status of received light beam
- ③ LED indicator green: Supply voltage active
- ④ M4 threaded mounting hole, 4 mm deep
- ⑤ Mounting hole,  $\varnothing$  4.2 mm
- ⑥ Sensitivity control: potentiometer
- ⑦ Connection

Recommended accessories

Other models and accessories → [www.sick.com/W12-3](http://www.sick.com/W12-3)

	Brief description	Type	Part no.
Others			
	<ul style="list-style-type: none"><li>• <b>Connection type head A:</b> Female connector, M12, 4-pin, straight</li><li>• <b>Connection type head B:</b> Flying leads</li><li>• <b>Signal type:</b> Sensor/actuator cable</li><li>• <b>Cable:</b> 5 m, 4-wire, PVC</li><li>• <b>Description:</b> Sensor/actuator cable, unshielded</li><li>• <b>Connection systems:</b> Flying leads</li><li>• <b>Note:</b> This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid &amp; hydrogen peroxide (H2O2)</li><li>• <b>Application:</b> Hygienic and washdown zones</li></ul>	DOL-1204-G05MNI	6052615

## 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)