



WLL2000-B1312

W2000

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

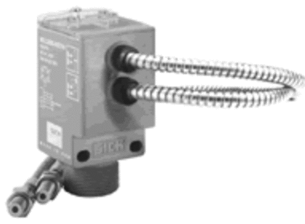


Illustration may differ

Ordering information

Type	part no.
WLL2000-B1312	7023069

Other models and accessories → www.sick.com/W2000

Detailed technical data

Features

Dimensions (W x H x D)	45 mm x 73.5 mm x 48.6 mm
Housing design (light emission)	Rectangular
Sensing range max.	Depends on fiber
Type of light	Visible red light
Light source	LED
Adjustment	Potentiometer

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Power consumption	6 W ²⁾
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark selector
Output current I_{max.}	≤ 100 mA
Response time	1 ms ³⁾
Switching frequency	500 Hz ⁴⁾
Time functions	Off delay
Delay time	≤ 0 ms ≤ 5 ms ≤ 10 ms ≤ 20 ms ≤ 50 ms
Connection type	Cable, 5-wire, 2 m
Cable material	PVC
Circuit protection	A ⁵⁾ C ⁶⁾

¹⁾ Limit values.

²⁾ Without load.

³⁾ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

⁵⁾ A = V_S connections reverse-polarity protected.

⁶⁾ C = interference suppression.

⁷⁾ D = outputs overcurrent and short-circuit protected.

⁸⁾ Reference voltage: 50 V DC.

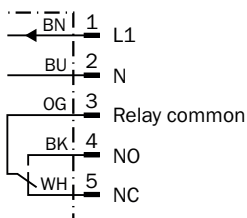
	D ⁷⁾
Protection class	II ⁸⁾
Weight	150 g
Housing material	Plastic, Glassfibre reinforced plastic
Enclosure rating	IP67
Ambient operating temperature	-25 °C ... +40 °C
Ambient temperature, storage	-40 °C ... +70 °C
UL File No.	242366 & cUL No. NRKH7.E147756

- 1) Limit values.
2) Without load.
3) Signal transit time with resistive load.
4) With light/dark ratio 1:1.
5) A = V_S connections reverse-polarity protected.
6) C = interference suppression.
7) D = outputs overcurrent and short-circuit protected.
8) Reference voltage: 50 V DC.

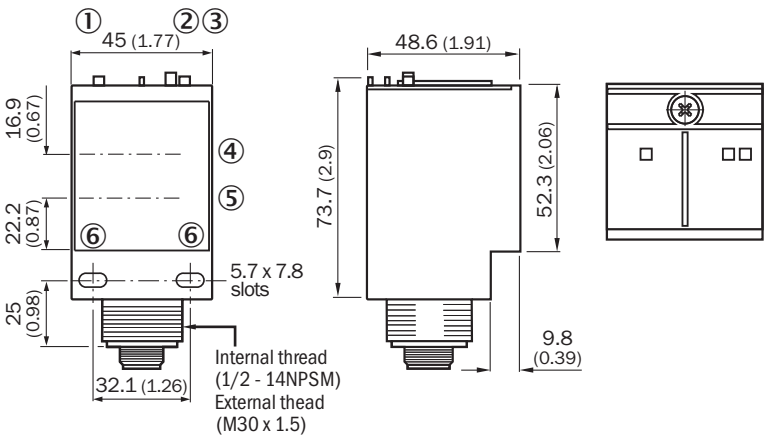
Classifications

ECLASS 5.0	27270905
ECLASS 5.1.4	27270905
ECLASS 6.0	27270905
ECLASS 6.2	27270905
ECLASS 7.0	27270905
ECLASS 8.0	27270905
ECLASS 8.1	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram Cd-172



Dimensional drawing




Dimensions in mm (inch)

- ① LED indicator green: Supply voltage active
- ② Status indicator LED red: signal strength
- ③ Status indicator LED, yellow: Output active
- ④ Center of emitter optical axis
- ⑤ Center of receiver optical axis
- ⑥ Mounting hole \varnothing 0.2 mm x 0.8 mm

Recommended accessories

Other models and accessories → www.sick.com/W2000

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none">• Connection type head A: Male connector, M12, 5-pin, straight, A-coded• Description: Unshielded• Connection systems: Screw-type terminals• Permitted cross-section: $\leq 0.75 \text{ mm}^2$• Note: For field bus technology	STE-1205-G	6022083

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