



WLL2000-M1312

W2000

COMPACT PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WLL2000-M1312	7023416

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 ¹⁾
Adjustment	Potentiometer

¹⁾ Average service life: 100,000 h at T_U = +25 °C.

Mechanics/electronics

Supply voltage	90 V AC ... 240 V AC ¹⁾
Power consumption	≤ 6 W ²⁾
Switching output	FET
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark selector
Output current I_{max}	≤ 150 mA
Response time	≤ 2 ms ³⁾
Switching frequency	250 Hz ⁴⁾
Time functions	Off delay ⁵⁾
Delay time	≤ 0 s ≤ 1 s ≤ 5 s ≤ 10 s ≤ 14 s
Connection type	Cable, 4-wire, 2 m ⁶⁾

¹⁾ Limit values.

²⁾ Without load.

³⁾ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

⁵⁾ Adjustable via Off delay selector switch.

⁶⁾ Do not bend below 0 °C.

⁷⁾ Reference voltage: 50 V DC.

Cable material	PVC
Protection class	II ⁷⁾
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) Adjustable via Off delay selector switch.

6) Do not bend below 0 °C.

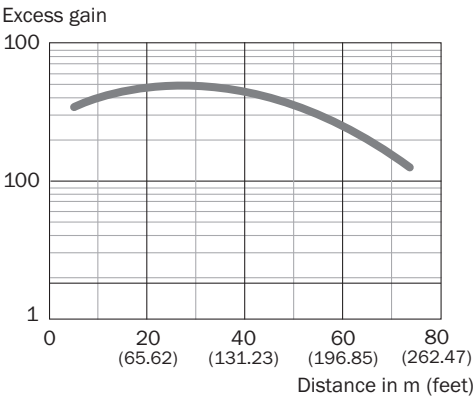
7) Reference voltage: 50 V DC.

Classifications

eCl@ss 5.0	27270901
eCl@ss 5.1.4	27270901
eCl@ss 6.0	27270901
eCl@ss 6.2	27270901
eCl@ss 7.0	27270901
eCl@ss 8.0	27270901
eCl@ss 8.1	27270901
eCl@ss 9.0	27270901
eCl@ss 10.0	27270901
eCl@ss 11.0	27270901
eCl@ss 12.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

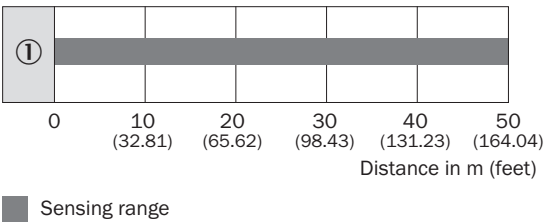
Characteristic curve

WS/WE2000

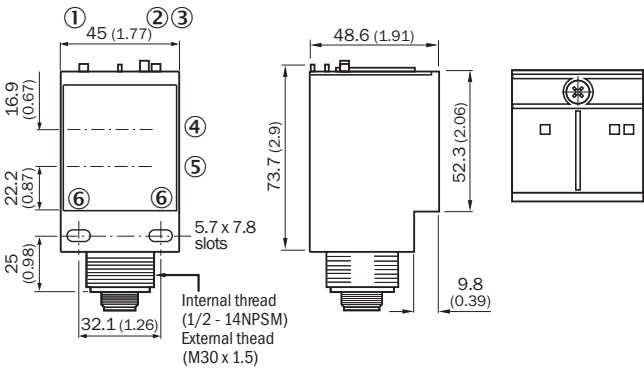


Sensing range diagram

WS/WE2000




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.
Plug connectors and cables			
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932

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