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DATA SHEET

WL2000-M1322

W2000
Photoelectric sensors

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Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

WL2000-M1322

ORDERING INFORMATION

Type	part no.
WL2000-M1322	7023400

Further device versions and accessories at www.sick.com/W2000

DETAILED TECHNICAL DATA

FEATURES

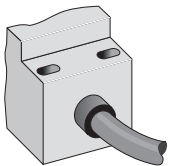
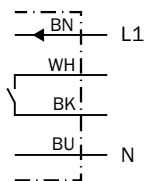
Functional principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	45 mm x 73.7 mm x 48.6 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m ... 15 m ¹⁾
Sensing range	0 m ... 15 m ¹⁾
Focus	Approx. 1.3°
Type of light	Visible red light
Light source	LED ²⁾
Light spot size (distance)	Ø 320 mm (14 m)
Angle of dispersion	Approx. 1.3°
Wave length	660 nm
Adjustment	Potentiometer

¹⁾ Reflector PL80A.

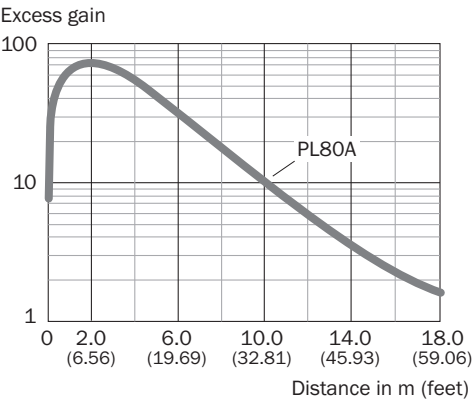
²⁾ Average service life: 100,000 h at T_u = +25 °C.

MECHANICS/ELECTRONICS

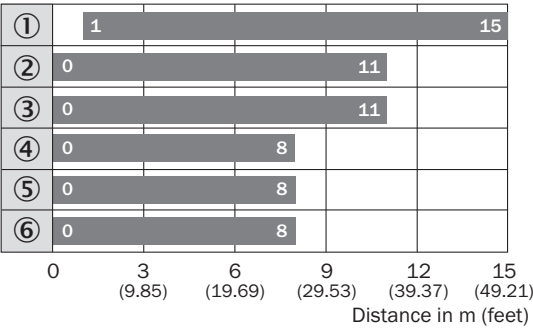
Supply voltage	90 V AC ... 240 V AC ¹⁾
Power consumption	≤ 6 W ²⁾
Switching output	FET
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark selector
Switching current (switching voltage)	150 mA (240 V)
Response time	≤ 2 ms ³⁾
Switching frequency	250 Hz ⁴⁾
Time functions	Off delay ⁵⁾ On delay ⁶⁾
Delay time	≤ 0 s ≤ 1 s ≤ 5 s ≤ 10 s ≤ 14 s
Connection type	Cable, 4-wire, 2 m ⁷⁾
Cable material	PVC
Protection class	II ⁸⁾
Weight	150 g
Polarisation filter	✓
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⁾ Adjustable via On delay selector switch.⁷⁾ Do not bend below 0 °C.⁸⁾ Reference voltage: 50 V DC.**CONNECTION TYPE****CONNECTION DIAGRAM CD-126**

CHARACTERISTIC CURVE WL2000

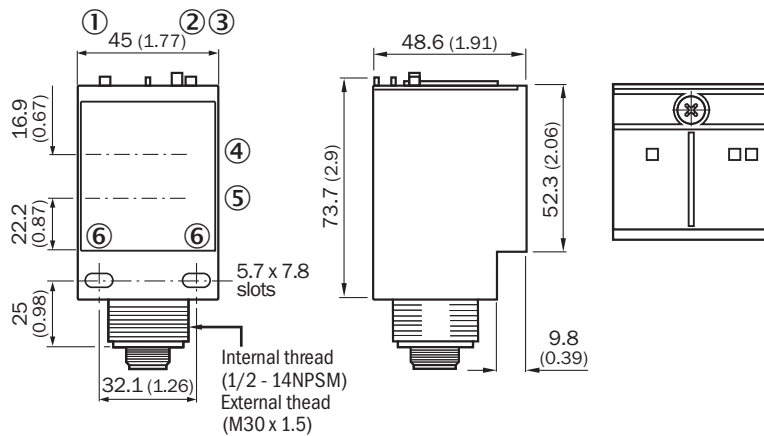


SENSING RANGE DIAGRAM WL2000



- Sensing range
- ① Reflector PL80A
 - ② Reflector PL50A
 - ③ Reflector PL40A
 - ④ Reflector PL30A
 - ⑤ Reflector PL20A
 - ⑥ Reflective tape Diamond Grade

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

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/7023400



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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