



WT2000-M1112

W2000

COMPACT PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WT2000-M1112	7023431

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



Detailed technical data

Features

i catures	
Functional principle	Photoelectric proximity 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 3.5 m ¹⁾
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Focus	Approx. 1.3°
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 55 mm (2.5 m)
Angle of dispersion	Approx. 1.3°
Wave length	880 nm
Adjustment	Potentiometer adjustable via sensitivity adjustment

 $^{^{1)}}$ Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

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Supply voltage	90 V AC 240 V AC ¹⁾
Power consumption	\leq 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⁾

¹⁾ Limit values.

 $^{^{2)}}$ Average service life: 100,000 h at T_U = +25 °C.

²⁾ Without load.

 $^{^{}m 3)}$ 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.

Switching frequency	250 Hz ⁴⁾
Time functions	Off delay ⁵⁾
Delay time	≤0s ≤1s ≤5s ≤10s ≤14s
Connection type	Cable, 4-wire, 2 m ⁶⁾
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.

Classifications

eCl@ss 5.0	27270904
eCl@ss 5.1.4	27270904
eCl@ss 6.0	27270904
eCl@ss 6.2	27270904
eCl@ss 7.0	27270904
eCl@ss 8.0	27270904
eCl@ss 8.1	27270904
eCl@ss 9.0	27270904
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904
eCl@ss 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

²⁾ Without load.

 $^{^{}m 3)}$ Signal transit time with resistive load.

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⁵⁾ Adjustable via Off delay selector switch.

⁶⁾ Do not bend below 0 °C.

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Connection type



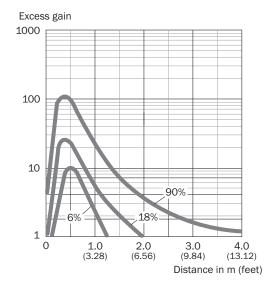
Connection diagram

Cd-126



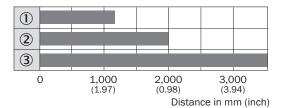
Characteristic curve

WT2000



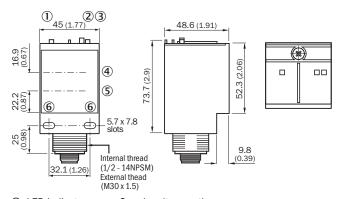
Sensing range diagram

WT2000



- Sensing range
- ① Sensing range on black, 6% remission
- $\ \ \, \mbox{\Large @}$ Sensing range on gray, 18 % remission
- 3 Sensing range on white, 90% remission

Dimensional drawing (Dimensions in mm (inch))



- $\textcircled{1} \ \ \mathsf{LED} \ \mathsf{indicator} \ \mathsf{green:} \ \mathsf{Supply} \ \mathsf{voltage} \ \mathsf{active}$
- 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 ø 0.2 mm x 0.8 mm

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	rs and cables		
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932

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For us, that is "Sensor Intelligence."

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