

WT27-2S112

W27-2

PRODUCT PORTFOLIO





Ordering information

Туре	Part no.
WT27-2S112	1015093

Other models and accessories → www.sick.com/W27-2

Illustration may differ



Detailed technical data

Features

Sensor/detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	24.6 mm x 80 mm x 53.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	100 mm 1,500 mm ¹⁾
Sensing range	100 mm 1,500 mm
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 25 mm (800 mm)
Adjustment	PotentiometerPotentiometer

 $^{^{1)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

Supply voltage	24 V AC/DC 240 V AC/DC ¹⁾
Power consumption	< 2 VA
Output type	Relay, electrically isolated ²⁾
Output function	Change-over contacts
Switching current (switching voltage)	4 A (240 V AC)

¹⁾ + 10 %, -20 %.

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

 $^{^{2)}\,\}mbox{Provide}$ suitable spark suppression for inductive or capacitive loads.

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

 $^{^{4)}}$ With light/dark ratio 1:1.

⁵⁾ Do not bend below 0 °C.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

 $^{^{8)}}$ Reference voltage: 250 V AC.

	0.2 A (120 V DC) 4 A (24 V DC)
Response time	< 6 ms ³⁾
Switching frequency	10 Hz ⁴⁾
Connection type	Cable, 5-wire, 2 m ⁵⁾
Conductor cross-section	0.25 mm ²
Circuit protection	A ⁶⁾ C ⁷⁾
Protection class	II ⁸⁾
Weight	100 g
Housing material	ABS
Enclosure rating	IP67
Ambient operating temperature	-40 °C +60 °C
Ambient storage temperature	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

¹⁾ + 10 %, -20 %.

Classifications

ECI@ss 5.0	27270904
ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904
ECI@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

²⁾ Provide suitable spark suppression for inductive or capacitive loads.

³⁾ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

⁵⁾ Do not bend below 0 °C.

⁶⁾ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

⁸⁾ Reference voltage: 250 V AC.

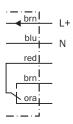
Adjustments possible

Potentiometer

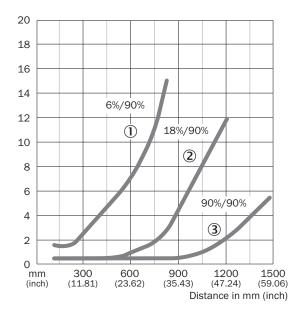


Connection diagram

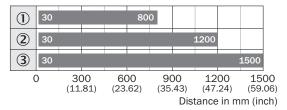
Cd-162



Characteristic curve

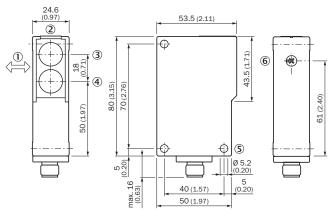


Sensing range diagram



- Sensing range
- ① Sensing range on black, 6 % remission
- 2 Sensing range on gray, 18 % remission
- $\ensuremath{\mathfrak{B}}$ Sensing range on white, 90 % remission

Dimensional drawing (Dimensions in mm (inch))



- ① Standard direction
- ② LED signal strength indicator
- ③ Optical axis, sender
- ④ Optical axis, receiver
- ⑤ Fixing hole
- 6 Adjustment of sensing range

Recommended accessories

Other models and accessories → www.sick.com/W27-2

	Brief description	Туре	Part no.
Universal bar clamp systems			
	Plate N04 for universal clamp, steel, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N04	2051610
Device protection (mechanical)			
	Protective housing for universal clamp, Zinc plated steel (protective housing), Zinc die cast (clamping bracket), Universal clamp (2031357), mounting hardware	BEF-SG-W27	2039601

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	Brief description	Туре	Part no.
THE STATE OF THE S	Weather hood for universal clamp bracket, steel, zinc coated, mounting hardware included	OBW-KHS-M01	2023240
Mounting brackets and plates			
	Mounting bracket with articulated arm for W11-2, W27, Dx50, steel, zinc coated, mounting hardware included	BEF-WN-MULTI	2064469
	Mounting bracket with hinged arm, steel, zinc coated, mounting hardware included	BEF-WN-W27	2009122

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