

WL27-3P3402S17

Reflex Array

PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WL27-3P3402S17	1051529

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

Illustration may differ



Detailed technical data

Features

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Sensor/ detection principle	Reflex Array
Dimensions (W x H x D)	24.6 mm x 80 mm x 54.2 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m 1.5 m ¹⁾
Sensing range	0 m 1.5 m ¹⁾
Type of light	Visible red light
Light source	PinPoint LED ²⁾
Distance of the sensor to reflector	0.5 m 1.5 m ¹⁾
Minimum object size	5 mm, position-independent detection within the light array
Adjustment	Single teach-in button
AutoAdapt	✓
Special applications	Detecting transparent objects, Detecting perforated objects, Detecting uneven, shiny objects, Detecting objects with position tolerances
Special features	Detection height 24 mm

¹⁾ Reflector PL40A.

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	\leq 5 V_{pp}^{2}
Power consumption	\leq 35 mA $^{3)}$
Switching output	PNP
Output function	Complementary
Switching mode	Light/dark switching
Signal voltage PNP HIGH/LOW	Approx. V _S – 2.5 V / 0 V
Output current I _{max.}	≤ 100 mA
Response time	\leq 2.5 ms $^{4)}$
Switching frequency	200 Hz ⁵⁾
Connection type	Cable with M12 male connector, 4-pin, 270 mm ⁶⁾
Cable material	PVC
Circuit protection	A ⁷⁾ B ⁸⁾ C ⁹⁾
Protection class	II ¹⁰⁾
Weight	130 g
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67
Special feature	Light band
Ambient operating temperature	-30 °C +60 °C ¹¹⁾
Ambient storage temperature	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}\,\}mathrm{Limit}$ values when operated in short-circuit protected network: max. 8 A.

Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
ECI@ss 8.0	27270902

 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ Do not bend below 0 °C.

⁷⁾ A = V_S connections reverse-polarity protected.

 $^{^{8)}}$ B = inputs and output reverse-polarity protected.

 $^{^{9)}}$ C = interference suppression.

 $^{^{10)}}$ Reference voltage: 50 V DC.

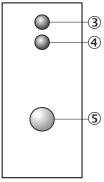
 $^{^{11)}}$ Avoid condensation on the front screen of the sensor and on the reflector.

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ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
UNSPSC 16.0901	39121528

Adjustments possible



③ LED indicator green: Supply voltage active

④ LED indicator yellow: Status of received light beam

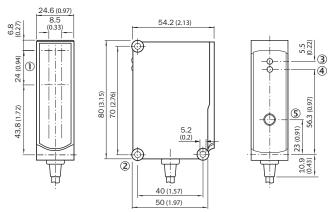
Sensitivity setting: single teach-in button

Connection diagram

cd-083

Dimensional drawing (Dimensions in mm (inch))

WL27-3P3402S17



- ① Opening of light band
- ② Mounting hole ø 5.2 mm
- 3 LED indicator green: Supply voltage active
- 4 LED indicator yellow: Status of received light beam
- Sensitivity setting: single teach-in button

Recommended accessories

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	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 protec	tion (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
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
Reflectors			
	Rectangular, screw connection, 47 mm x 47 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812
	Rectangular, screw connection, 37 mm x 56 mm, PMMA/ABS, Screw-on, 2 hole mounting	PL40A	1012720

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Brief description	Туре	Part no.
Rectangular, screw connection, 80 mm x 80 mm, PMMA/ABS, Screw-on, 2 hole mounting	PL80A	1003865

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