

WL27-3N1102S26

Reflex Array

MULTITASK PHOTOELECTRIC SENSORS



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Ordering information

Туре	Part no.
WL27-3N1102S26	1072981

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

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	24.6 mm x 80 mm x 54.2 mm
Housing design (light emission)	Rectangular
Minimum object size	5 mm, position-independent detection within the light array
Sensing range max.	0 m 1.5 m ¹⁾
Sensing range	0 m 1.5 m ¹⁾
Distance of the sensor to reflector	0.5 m 1.5 m ¹⁾
Type of light	Visible red light
Light source	PinPoint LED
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.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	35 mA ³⁾
Switching output	NPN
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	≤ 2.5 ms ⁴⁾
Switching frequency	200 Hz ⁵⁾
Connection type	Cable, 4-wire, 2 m 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.

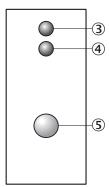
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ECI@ss 10.0	27270902
ECI@ss 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram

Cd-094



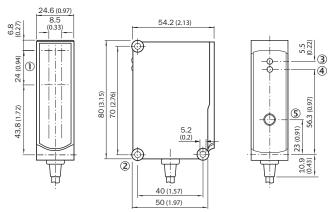
Adjustments



- 3 LED indicator green: Supply voltage active
- 4 LED indicator yellow: Status of received light beam
- ⑤ Sensitivity setting: single teach-in button

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.	
Mounting brackets and plates				
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574	
Reflectors				
	Rectangular, screw connection, 84 mm x 84 mm, PMMA/ABS, Screw-on, 2 hole mounting $$	PL80A	1003865	
Plug connectors and cables				
The state of the s	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932	

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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.

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For us, that is "Sensor Intelligence."

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