

WL27-3P3402S17 RAY26 Reflex Array

MULTITASK PHOTOELECTRIC SENSORS



WL27-3P3402S17 | RAY26 Reflex Array

MULTITASK PHOTOELECTRIC SENSORS



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Туре	Part no.
WL27-3P3402S17	1051529

Other models and accessories -> www.sick.com/RAY26_Reflex_Array

Illustration may differ



Detailed technical data

Features

Functional 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 ²⁾
Adjustment	Single teach-in button
AutoAdapt	✓
Special feature	Light band
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 T_U = +25 °C.

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Mechanics/electronics

Supply voltage U _B	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	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	≤ 2.5 ms ⁴⁾
Switching frequency	200 Hz ⁵)
Connection type	Cable with M12 male connector, 4-pin, 270 mm $^{6)}$
Cable material	Plastic, 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 temperature, storage	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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

 $^{2)}\,\text{May}$ not fall below or exceed 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 $\,^{\circ}\text{C}.$

⁷⁾ A = V_S connections reverse-polarity protected.

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

⁹⁾ C = interference suppression.

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

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

Safety-related parameters

MTTF _D	976 years
DC _{avg}	0 %
Classifications	
ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902

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ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Adjustments



③ LED indicator green: Supply voltage active

④ LED indicator yellow: Status of received light beam

5 Sensitivity setting: single teach-in button

Connection type



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

(5) Sensitivity setting: single teach-in button

Recommended accessories

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	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
	 Description: Universal mounting bracket for reflectors Dimensions (W x H x L): 85 mm x 90 mm x 35 mm Material: Steel Details: Steel, zinc coated Suitable for: C110A, P250, PL20, PL30A, PL40A, PL80A 	BEF-WN-REFX	2064574	
Others				
	 Description: Rectangular, screw connection Dimensions: 84 mm 84 mm Ambient operating temperature: -30 °C +65 °C 	PL80A	1003865	

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	Brief description	Туре	Part no.
•	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF2A14- 050VB3XLEAX	2096235
	 Connection type head A: Male connector, M12, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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Online data sheet

