

ZT2-N3238

Z-Sensor

PHOTOELECTRIC SENSORS



Ordering information

Туре	part no.
ZT2-N3238	1045488

Other models and accessories → www.sick.com/Z-Sensor

Illustration may differ

Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	13.6 mm x 41.9 mm x 31.7 mm
Housing design (light emission)	Hybrid
Thread diameter (housing)	M18 x 1
Sensing range max.	0 mm 50 mm ¹⁾
Sensing range	0 mm 50 mm
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 10.5 mm (50 mm)
Wave length	880 nm
Adjustment	None

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	20 mA ³⁾
Switching output	NPN
Switching mode	Light switching
Output current I _{max.}	≤ 50 mA

¹⁾ Limit values

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

 $^{^{2)}\,\}mbox{May}$ not exceed or fall below $\mbox{U}_{\mbox{\scriptsize V}}$ tolerances.

³⁾ Without load.

⁴⁾ With light/dark ratio 1:1.

 $^{^{5)}}$ A = V_S connections reverse-polarity protected.

⁶⁾ D = outputs overcurrent and short-circuit protected.

⁷⁾ Reference voltage: 50 V DC.

Switching frequency	200 Hz ⁴⁾
Connection type	Male connector M8, 4-pin
Circuit protection	A ⁵⁾ D ⁶⁾
Protection class	III ⁷⁾
Housing material	Plastic, Glass fiber reinforced ABS plastic
Enclosure rating	IP67
Items supplied	Mounting nut M18
Ambient operating temperature	-25 °C +50 °C
Ambient temperature, storage	-40 °C +70 °C
UL File No.	NRKH.E189383 & NRKH7.E189383

¹⁾ Limit values.

Classifications

ECLASS 5.0	27270903
ECLASS 5.1.4	27270903
ECLASS 6.0	27270903
ECLASS 6.2	27270903
ECLASS 7.0	27270903
ECLASS 8.0	27270903
ECLASS 8.1	27270903
ECLASS 9.0	27270903
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270903
ETIM 5.0	EC001821
ETIM 6.0	EC001821
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

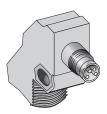
²⁾ May not exceed or fall below U_v tolerances.

³⁾ Without load.

⁴⁾ With light/dark ratio 1:1.

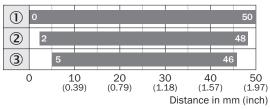
⁵⁾ A = V_S connections reverse-polarity protected.
6) D = outputs overcurrent and short-circuit protected.
7) Reference voltage: 50 V DC.

Connection type



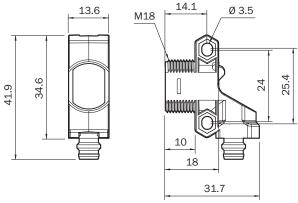
Connection diagram Cd-067

Sensing range diagram ZT1, 50 mm



- Sensing range
- Sensing range max.
- ① sensing range on white, 90% remission
- 3 sensing range on black, 6% remission

Dimensional drawing ZT2, ZL2, Connector M8, 4-pin



Dimensions in mm (inch)

Recommended accessories

Other models and accessories → www.sick.com/Z-Sensor

	Brief description	Туре	part no.		
connectors and cables					
No.	 Connection type head A: Female connector, M8, 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 	YF8U14-050VA3XLEAX	2095889		
	 Connection type head A: Male connector, M8, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0804-G	6037323		
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF8U14-050UA3XLEAX	2094792		
Mounting systems					
	 Description: Plate N11N for universal clamp bracket Material: Stainless steel Details: Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp) Items supplied: Universal clamp (5322627), mounting hardware Usable for: DeltaPac, Glare, WTD20E 	BEF-KHS-N11N	2071081		

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