

ZLD18-ANZAD8P10

Z18 Simple Sense

HYBRID PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
ZLD18-ANZAD8P10	1096992

Included in delivery: BEF-MU-M18*1(1)

Other models and accessories → www.sick.com/Z18_Simple_Sense

Illustration may differ







Detailed technical data

Features

Functional principle	Photoelectric retro-reflective sensor		
Functional principle detail	With minimum distance to reflector (dual lens system)		
Dimensions (W x H x D)	13.6 mm x 34.8 mm x 23 mm		
Housing design (light emission)	Hybrid		
Thread diameter (housing)	M18		
Mounting system type	M18, head/side (24.1 25.4 mm)		
Housing color	Transparent		
Sensing range max.	0 m 5 m ¹⁾		
Sensing range	0 m 4.2 m ¹⁾		
Type of light	Visible red light		
Light source	LED		
Light spot size (distance)	Ø 125 mm (1,000 mm)		
Wave length	625 nm		
Special features	Including mounting bracket (4050346) with nut (7023677)		

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage U _B	10 V DC 30 V DC
Ripple	< 10 %
Current consumption	\leq 15 mA $^{1)}$
Switching output	NPN

¹⁾ Without load.

 $^{^{2)}}$ Signal transit time with resistive load.

³⁾ With light/dark ratio 1:1.

 $^{^{\}rm 4)}$ A = V $_{\rm S}$ connections reverse-polarity protected.

⁵⁾ B = inputs and output reverse-polarity protected.

 $^{^{6)}}$ D = outputs overcurrent and short-circuit protected.

Switching mode	Light switching
Switching output detail	
Switching output Q1	NPN, Light switching
Switching output Q2	Not connected
Output current I _{max.}	100 mA
Response time	≤ 500 µs ²⁾
Switching frequency	1,000 kHz ³⁾
Connection type	Cable with connector RJ11, 6-pin, 500 mm
Cable material	Plastic, PVC
Conductor cross section	0.13 mm ²
Circuit protection	A ⁴⁾ B ⁵⁾ D ⁶⁾
Protection class	III
Weight	3.63 g
Polarisation filter	✓
Special device	✓
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-40 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C
UL File No.	E189383

¹⁾ Without load.

Connection type/pinouts

Connection type	Cable with connector RJ11, 6-pin, 500 mm
Connection type Detail	
Conductor cross section	0.13 mm ²
Cable material	Plastic
Pinouts	
BN 2	+ (L+)
вк з	Q_1
WH 4	Not connected
BU 5	- (M)

Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902

²⁾ Signal transit time with resistive load.

³⁾ With light/dark ratio 1:1.

⁴⁾ A = V_S connections reverse-polarity protected.

⁵⁾ B = inputs and output reverse-polarity protected.

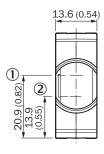
⁶⁾ D = outputs overcurrent and short-circuit protected.

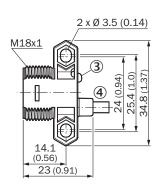
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	0707000
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))





- ① Optical axis, sender
- ② Optical axis, receiver
- ③ LED status indicator
- ④ Connection

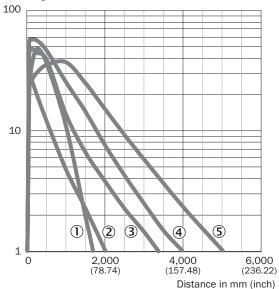
Connection type

Pinouts, see table Technical data: Connection type/pinouts



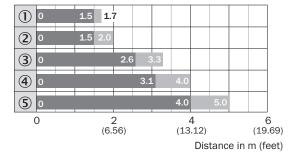
Characteristic curve





- ① Reflector PL23 FT
- ② Reflector PL20A
- 3 Reflector PL250
- ④ Reflector PL40A
- ⑤ Reflector PL80A

Sensing range diagram



- Sensing range
- Sensing range max.
- ① Reflector PL23 FT
- ② Reflector PL20A
- 3 Reflector PL250
- Reflector PL40A
- ⑤ Reflector PL80A

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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, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

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