

ZLD18-2PZAK2

Z18 Simple Sense

HYBRID PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
ZLD18-2PZAK2	1144878

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 21.9 mm
Housing design (light emission)	Hybrid
Mounting system type	M18, head/side (24.1 25.4 mm)
Housing color	Blue
Sensing range max.	0 m 7.8 m ¹⁾
Sensing range	0 m 6.8 m ¹⁾
Type of light	Visible red light
Light source	PinPoint LED
Light spot size (distance)	Ø 25 mm (1,000 mm)
Wave length	625 nm

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	PNP
Switching mode	Light switching
Switching output detail	

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 output Q2	Not connected
eurrent I _{max.}	100 mA
e time	≤ 500 μs ²⁾
g frequency	1,000 kHz ³⁾
ion type	Cable with connector RJ11, 6-pin, 3,000 mm
aterial	Plastic, PVC
or cross section	0.13 mm ²
rotection	A ⁴⁾ B ⁵⁾ D ⁶⁾
on class	III
	4.54 g
tion filter	√
material	Plastic, ABS
naterial	Plastic, PMMA
re rating	IP67
operating temperature	-40 °C +55 °C
temperature, storage	-40 °C +70 °C
lo.	E189383

 $^{^{1)}}$ Without load.

Connection type/pinouts

Connection type	Cable with connector RJ11, 6-pin, 3,000 mm	
Connection type Detail		
Conductor cross section	0.13 mm ²	
Cable material	Plastic	
Pinouts		
BN 2	+ (L+)	
BK 3	Q_1	
WH 4	Not connected	
BU 5	- (M)	

Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	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.

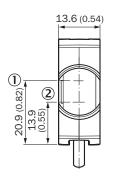
⁶⁾ D = outputs overcurrent and short-circuit protected.

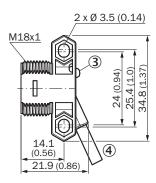
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ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))





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

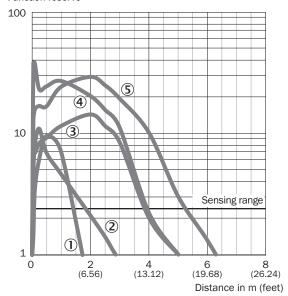
Connection type

Pinouts, see table Technical data: Connection type/pinouts



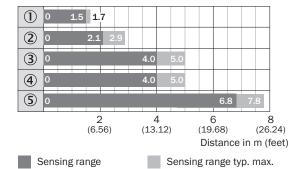
Characteristic curve

Function reserve



- ① Reflector PL23 FT
- ② Reflector PL20A
- 3 Reflector P250
- 4 Reflector PL40A
- ⑤ Reflector PL80A

Sensing range diagram



- ① Reflector PL23 FT
- Reflector PL20A 3 Reflector P250
- ④ Reflector PL40A
- ⑤ Reflector PL80A

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Recommended accessories

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

	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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