



ZLD18-4EZ4A8

SimpleSense

HYBRID PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
ZLD18-4EZ4A8	1100624

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

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

Illustration may differ



Detailed technical data

Features

Device type	Photoelectric sensors
Sensor/ detection principle	Photoelectric retro-reflective sensor, Dual lens
Dimensions (W x H x D)	13.6 mm x 44.2 mm x 33.3 mm
Housing design (light emission)	Hybrid
Thread diameter (housing)	M18
Housing color	Blue
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 (500 mm)
Wave length	625 nm

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	< 10 %
Current consumption	≤ 15 mA ¹⁾
Switching output	NPN
Switching mode	Dark switching
Switching output detail	

¹⁾ Without load.

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.

	Switching output Q1	NPN, Dark switching
	Switching output Q2	Not connected
Output current I_{max.}	100 mA	
Response time	≤ 1 ms ²⁾	
Switching frequency	1,000 Hz ³⁾	
Connection type	Male connector M12, 4-pin	
Circuit protection	A ⁴⁾ B ⁵⁾ D ⁶⁾	
Protection class	III	
Weight	4.54 g	
Polarisation filter	✓	
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.

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.

Classifications

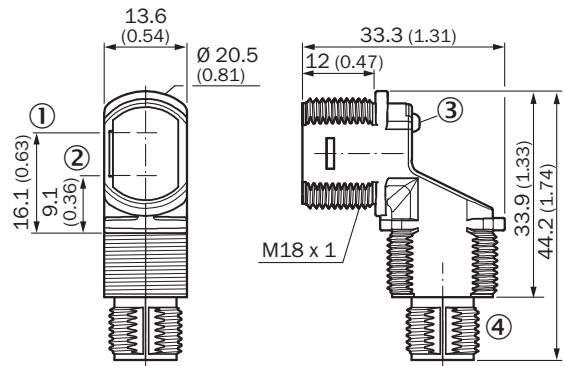
ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
ECI@ss 8.0	27270902
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ECI@ss 10.0	27270902
ECI@ss 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Connection/pin assignment

Connection type	Male connector M12, 4-pin
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PIN assignment

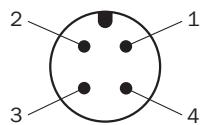
BN 1	+(L+)
WH 2	Not connected
BU 3	- (M)
BK 4	Q ₁

Dimensional drawing (Dimensions in mm (inch))

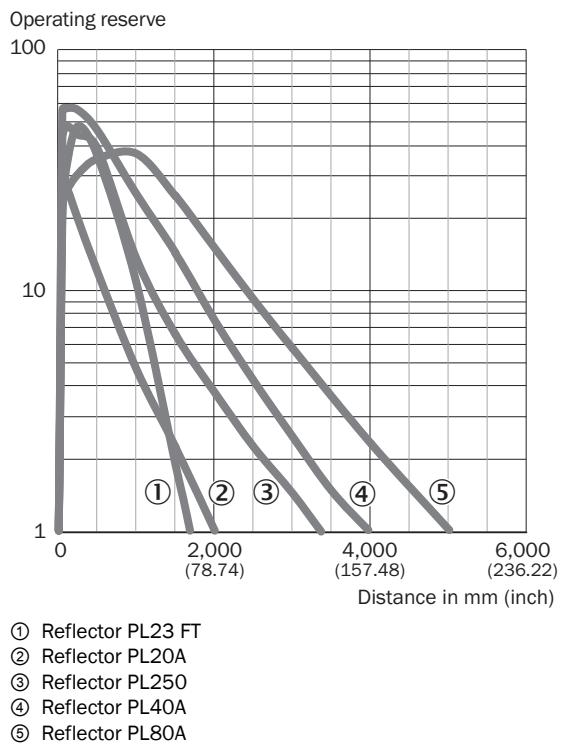
- ① Optical axis, sender
- ② Optical axis, receiver
- ③ LED status indicator
- ④ Connection

Connection type

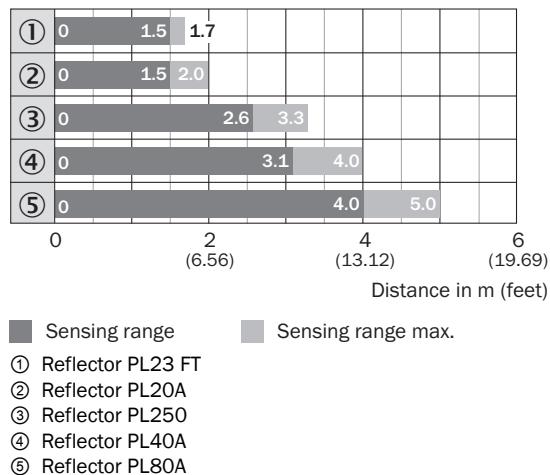
See table: **Connection/Pin assignment**



Characteristic curve



Sensing range diagram



Recommended accessories

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

	Brief description	Type	Part no.
Mounting brackets and plates			
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14-050VB3XLEAX	2096235
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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."

WORLDWIDE PRESENCE:

Contacts and other locations www.sick.com