

ZSE18-9AB5B8

Z18 Simple Sense

HYBRID PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
ZSE18-9AB5B8	1095868

Illustration may differ

Included in delivery: BEF-MU-M18*1(2)

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









Detailed technical data

Features

Through-beam photoelectric sensor
14.4 mm x 20.5 mm x 23 mm
Hybrid
M18
M18, head/dovetail mounting with base
Blue
0 m 22 m
0 m 20 m
Visible red light
LED
Ø 125 mm (1,000 mm)
625 nm

Mechanics/electronics

Supply voltage U _B	10 V DC 30 V DC
Ripple	< 10 %
Current consumption	\leq 15 mA $^{1)}$
Switching output	Push-pull: PNP/NPN
Switching mode	Light switching, Dark switching
Switching output detail	
Switching output Q1	Push-pull: PNP/NPN, Light switching
Switching output Q2	Push-pull: PNP/NPN, Dark switching
Output current I _{max.}	100 mA
Response time	≤ 500 µs ²⁾
Switching frequency	1,000 kHz ³⁾

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.

Connection type	Cable with male connector M8, 4-pin, snap, 150 mm
Cable material	Plastic, PVC
Conductor cross section	0.13 mm ²
Circuit protection	A ⁴⁾ B ⁵⁾ D ⁶⁾
Protection class	III
Weight	2.49 g
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 male connector M8, 4-pin, snap, 150 mm
Connection type Detail	
Conductor cross section	0.13 mm ²
Cable material	Plastic
Pinouts Sender	
BN 1	+ (L+)
WH 2	Not connected
BU 3	- (M)
BK 4	Test _{IN}
Pinouts Receiver	
BN 1	+ (L+)
WH 2	Q_2
BU 3	- (M)
BK 4	Q_1

Classifications

ECLASS 5.0	27270901
ECLASS 5.1.4	27270901
ECLASS 6.0	27270901
ECLASS 6.2	27270901
ECLASS 7.0	27270901
ECLASS 8.0	27270901
ECLASS 8.1	27270901

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.

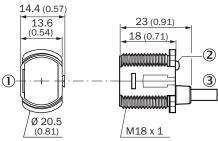
⁶⁾ D = outputs overcurrent and short-circuit protected.

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ECLASS 9.0	27270901
ECLASS 10.0	27270901
ECLASS 11.0	27270901
ECLASS 12.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))



- ① Optical axis
- ② LED status indicator
- 3 Connection

Connection type

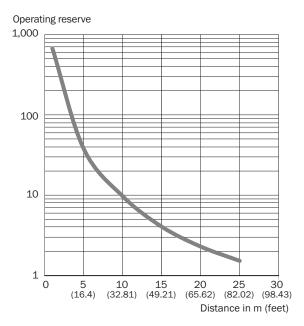
Pinouts, see table Technical data: Connection type/pinouts



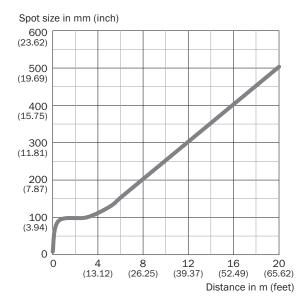


- ① Sender
- ② Receiver

Characteristic curve



Light spot size



Recommended accessories

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

	Brief description	Туре	Part no.
Others			
	 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

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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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