



NON-CONTACT SAFETY SWITCHES



IQB2S12-04B4DT0 | IQB2S

NON-CONTACT SAFETY SWITCHES



Ordering information

Туре	Part no.
IQB2S12-04B4DT0	1091954

Other models and accessories -> www.sick.com/IQB2S



Detailed technical data

Features

Sensor principle	Inductive
Number of safe outputs	2
Sensing range S _n	4 mm ¹⁾
Safe switch on distance \mathbf{S}_{ao}	3.2 mm ¹⁾
Safe switch off distance S _{ar}	6 mm ¹⁾
Active sensor surfaces	1
Actuation frequency	≤ 100 Hz

 $^{\mbox{1})}$ Values apply for steel (FE360).

Safety-related parameters

Safety integrity level	SIL 2 (IEC 61508)
Category	Category 2 (ISO 13849-1)
Performance level	PL d (ISO 13849-1)
$\ensuremath{PFH}\xspace_D$ (mean probability of a dangerous failure per hour)	6.0 x 10 ^{-8 1)}
T _M (mission time)	20 years (ISO 13849-1)
Туре	Type 3 (ISO 13849-1)
Actuator coding level	Uncoded (EN ISO 14119)
Safe state in the event of a fault	At least one safety-related semiconductor output (OSSD) is in the OFF state.

 $^{1)}$ At 40 $\,^{\circ}\text{C}$ and 1000 m above sea level.

Functions

Safe series connection	None, only individual wiring (with diagnostics)
Interfaces	
Connection type	Male connector M8, 4-pin
Coupling nut material	VISTAL®
IO-Link Safety	

IQB2S12-04B4DT0 | IQB2S NON-CONTACT SAFETY SWITCHES

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NON-CONTACT SAFETY SWITCHES

eCl@ss 12.0	27274101
ETIM 5.0	EC001818
ETIM 6.0	EC001818
ETIM 7.0	EC001818
ETIM 8.0	EC001818
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Response range



① Safety switch

- ② Safe switch on distance S_{ao}
- ③ Sensing range S_n
- ④ Safe switch off distance Sar

⑤ Actuator

Pin assignment



Pin	Designation	Description	
1	+24 V DC	24 V DC voltage supply	
2	OSSD 1	OSSD 1 output	
3	0 V DC	0 V DC voltage supply	
4	OSSD 2	OSSD 2 output	
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For details see operating instructions

Recommended accessories

Other models and accessories → www.sick.com/IQB2S

	Brief description	Туре	Part no.
Plug connecto	rs and cables		
N . N .	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U14-050VA3XLEAX	2095889
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U14-100VA3XLEAX	2095890
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 20 m	YF8U14-200VA3XLEAX	2095891
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U14-050VA3M2A14	2096609
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U14-100VA3M2A14	2096610

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.

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For us, that is "Sensor Intelligence."

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