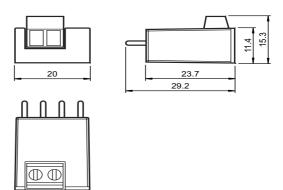




(**S**afeBox



Dimensions



TÜV; cNRTLus

Model Number

IF-SB4-01

Interface for SafeBox SB4 modules 4CP and 4C

General specifications	
Approvals	
Tests	

Technical data

 Tests
 IEC/EN 61496 , EN ISO 13849

 Safety type according to IEC/EN 61496
 4

 Safety Integrity Level (SIL)
 3

 MTTF_d
 18000 years

 PFH_d
 6.2 E-10 /h

 Performance level (PL)
 PL e

Marking Input

actuating voltage

ON: 24 V DC + 20 %/- 30 %; OFF: < 1 V

Activation current

max. 15 mA

CE

Input type PNP OSSD signals from photoelectric safety sensors

Output

Signal output on SB4 modules 4CP or 4C Switching current min. 7.5 mA

Switching current min. 7.5 mA
Response time 3 ms

Ambient conditions

Ambient temperature 0 ... 50 °C (273 ... 323 K) Storage temperature -20 ... 70 °C (253 ... 343 K)

Mechanical specifications

Protection degree IP20

Connection screw terminals, lead cross section 0.2 ... 1,5 mm²

Material

Housing ABS

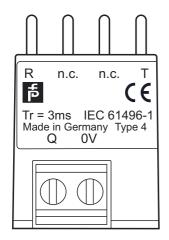
Mass approx. 10 g

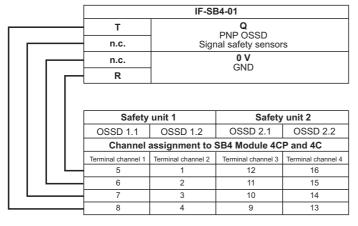
General information

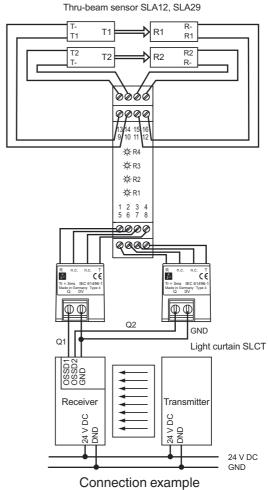
Ordering information For the connection are always two IF-SB4-01 is required

fa-info@us.pepperl-fuchs.com

Electrical connection







IF-SB4-01 is operated on a safety control interface unit type SafeBox SB4 on the modules SB4, 4CP, and 4C.

Please note the operating instructions for the SafeBox.

Function

IF-SB4-01 enables the use of Photoelectric Safety Sensors with semiconductor output on the SafeBox modules:

- SB4 modules 4CP
- SB4 modules 4C

The task of the interface is to filter test pulses for cross-wire monitoring from the sensor at the connection cable between the semi-conductor outputs and inputs on the SafeBox module.

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If a safety device with PNP outputs is connected to SafeBox "SB4 Modules 4CP" or "SB4 Modules 4C" using the IF-SB4-01, then care must be taken to ensure that the line discharges after each pulse within 200 μs. PNP outputs, whose output drivers are constructed as a Push-Pull step, are particularly suitable for this purpose.

Operating mode setting on the SB4-4CP and SB4-4C modules

There are 4 DIP switches on the assembly group of the SB4 modules 4CP and SB4 modules 4C. When using IF-SB4-01, the functionality of the simultaneous evaluation of neighboring channels (1 and 2, 3 and 4) has to be selected. 2 switches always have to be actuated for the function selection.

Note! 0 П

For correct simultaneous monitoring of the SB4 modules 4CP and SB4 modules 4C outputs, the connection of the PNP OSSD outputs must be made in pairs to the channel pair 1 and 2 or 3 and 4.

The position and operation of the DIP switches of the SB4 modules 4CP and SB4 modules 4C are given in the data sheet and the SafeBox operating instructions.

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