

Safety module - IB IL 24 SDI 8-PAC - 2985657

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Safe, decentral, digital input module, IP20 degree of protection for the Inline product range. This module has four safe digital inputs with two-channel occupancy or eight safe digital inputs with single-channel occupancy.

Product Description

The safety module is an input module from the Inline product range and can be used in an INTERBUS-Safety system. The safety module can be used as a part of an Inline station at any point within an INTERBUS-Inline system. The transmission speed of the safety module can be set to 500 kBaud or 2 Mbaud using a switch. Only one transmission speed must be used uniformly within an INTERBUS system. The module has four safe digital inputs with two-channel occupancy or eight safe digital inputs with single-channel occupancy.

The parameters of the inputs can be set in accordance with the application and make it possible to integrate sensors in the safe INTERBUS (INTERBUS-Safety).

In an INTERBUS Safety system, you can achieve the following safety integrity by using the safety module depending on the installation and parameterization:

- Up to category 4 according to the EN 954-1 standard
- Up to SIL 3 according to the standards EN 61508 and EN 62061
- Up to PL e according to the prEN ISO 13849-1 standard


The input data is exchanged between the safe INTERBUS controller and the module using safe messages (see UM DE INTERBUS-SAFETY SYS).

Your advantages

- ✓ SIL 3 according to IEC 61508/EN 61508
- ✓ PL e according to EN ISO 13849-1
- ✓ SILCL 3 according to EN 62061

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 131629
GTIN	4046356131629
Weight per Piece (excluding packing)	216.110 g
Custom tariff number	85389091
Country of origin	Germany

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)
Permissible humidity (storage/transport)	10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)
Air pressure (operation)	80 hPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 hPa ... 108 kPa (up to 3000 m above sea level)
Degree of protection	IP20

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (can be switched)

Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
Connection technology	2, 3, 4-wire
Number of inputs	4 (with two-channel assignment) 8 (for single-channel assignment)
Typical response time	See technical data
Input voltage	24 V DC (parameterizable; see technical data.)
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC

Power supply for module electronics

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC

General

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Technical data

General

Mounting type	DIN rail
Color	yellow
Net weight	216.11 g
Note on weight specifications	with connectors
Diagnostics messages	Short-circuit or overload of the digital outputs Error message in diagnostics code (bus) and display by means of the LED on the motor

Inline potentials

Designation	Communications power (U_L)
Supply voltage	7.5 V DC (see safety data)
Current consumption	max. 230 mA (see safety data)
Designation	Main circuit supply (U_M)
Supply voltage	24 V DC (see safety data)
Designation	Segment circuit supply (U_S)
Supply voltage	24 V (see safety data)

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Classifications

eCl@ss

eCl@ss 4.0	27250308
eCl@ss 4.1	27250308
eCl@ss 5.0	27250308
eCl@ss 5.1	27242904
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001617
ETIM 4.0	EC001599
ETIM 5.0	EC001599

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Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Accessories

Accessories

Connector set

Connector set - IB IL 24 SDI 8-PLSET/CP - 2916930



Connector set (yellow), color coded, for safe SDI boards.

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Terminal marking

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Accessories

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

Insert strip - ESL 62X46 - 0809502



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 46 mm, Number of individual labels: 120