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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



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



Technical data

Note

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

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



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
eCI@ss 5.1	27242904
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCI@ss 9.0	27242604

ETIM

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



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



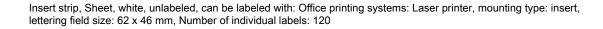
Accessories

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





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