Extract from the online catalog

IB IL 24 SDI 8-PAC

Order No.: 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.

Commercial data	
GTIN (EAN)	4 046356 131629
sales group	K414
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 106 (AX-2009)

Product notes

WEEE/RoHS-compliant since: 11/29/2006

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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).

Technical data

Interface	
Fieldbus system	INTERBUS
Name	Local bus
Connection method	Inline data jumper
Transmission speed	500 kbaud/2 Mbaud, can be selected

Digital inputs	
Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3, 4-wire
Number of inputs	8
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
Communications power U_L	7.5 V (via voltage jumper)
Current consumption	max. 230 mA (from the local bus)

General data	
Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm

Note on dimensions	Housing dimensions
Weight	200 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
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
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min
Diagnostics messages	Short-circuit / overload of the digital outputs Error message in diagnostics code (bus) and display by means of the LED on the motor

Inline potential routing

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

Certificates / Approvals

Certification	CUL, TUEV-RH, UL

Accessories

Item	Designation	Description
General		
2888796	UM DE IB IL 24 SDI 8-PAC	User Manual, German, for INTERBUS Safety input modules
2888806	UM EN IB IL 24 SDI 8-PAC	User Manual, English for PLCopen-certified INTERBUS Safety function blocks
Marking		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm
0809502	ESL 62X46	Insert strip for laser printer, lettering field: 62 x 46 mm
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
2727515	IB IL FIELD 8	Labeling field, width: 48.8 mm
Plug/Adapter		
2916930	IB IL 24 SDI 8-PLSET/CP	Connector set (yellow), color coded, for safe SDI boards.

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