

Coupling module - IBS-PB CT 24 IO GT-T - 2742751

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I/O coupling module (gateway) for an INTERBUS system and a PROFIBUS DP system, 24 V DC, protection type IP20

Product Description

CT coupling modules connect two fieldbus systems at the input/output level. With the above module type, it is possible to couple an INTERBUS system to a PROFIBUS system. In their function, the gateways correspond to two normal I/O modules, the inputs and outputs of which are connected crosswise.

In this way, bi-directional data transfer can take place between any two control systems. The volume of data can be up to ten words (160 bits) per cycle.

The data width can be configured between one byte and ten words by means of a rotary switch (byte configuration is only possible in Generation 4 controller boards). The selected data word (or byte) is shown on a 7-segment display.

The modules are installed directly in the remote bus. The bus is connected at the INTERBUS-PROFIBUS gateway IBS-PB 24 IO GT-T via 9-pos. D-SUB connectors.

The modules are equipped with electrically isolated bus lines as well as a redundant supply of the 24 V power. 16 status LEDs assigned to each bus line are used to display the signal states. A button located on the module permits the current output word or byte of the specific remote bus to be displayed. In this case, the output information for one bus is the input information of the other. If a bus system fails, an error message is generated in the other bus system (I/O error message or static diagnostics)

Product Features

- Electrical isolation
- Redundant power supply
- Diagnostic and status indicators
- Transmission of process data
- DIN rail mounting

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	420.0 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Dimensions

Width	204 mm
Height	77 mm

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Technical data

Dimensions

Depth	37 mm
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Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

Interfaces

Interface	INTERBUS remote bus (incoming/outgoing)
Connection method	D-SUB-9 plug
Transmission speed	500 kBit/s / 2 MBit/s
Transmission physics	Copper
Transmission length	400 m (depending on the transmission speed)
Interface	PROFIBUS DP remote bus
Connection method	D-SUB-9 plug
Transmission speed	9,6 kBit/s / 12MBit/s
Transmission physics	Copper
Transmission length	1200 m (depending on the transmission speed)

Power supply

Typical current consumption	150 mA
Supply voltage	24 V DC
Supply voltage range	19.2 V ... 30 V

Electrical isolation

Test section	Supply voltage/logics 500 V AC 50 Hz 1 min.
	Supply voltage/functional earth ground 500 V AC 50 Hz 1 min.
	Logics/functional earth ground 500 V AC 50 Hz 1 min.
	INTERBUS system /PROFIBUS-DP system 500 V AC 50 Hz 1 min.

INTERBUS data

Maximum distance to the next remote bus device	400 m
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Local functions

Error messages via the bus	I/O error message (can be switched off)
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General

Weight	340 g
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²

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General

Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16

Standards and Regulations

Test section	Supply voltage/logics 500 V AC 50 Hz 1 min.
	Supply voltage/functional earth ground 500 V AC 50 Hz 1 min.
	Logics/functional earth ground 500 V AC 50 Hz 1 min.
	INTERBUS system /PROFIBUS-DP system 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL

Classifications

eCl@ss

eCl@ss 4.0	27240604
eCl@ss 4.1	27250201
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242208

ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001423

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	45111807
UNSPSC 11	45111807
UNSPSC 12.01	45111807
UNSPSC 13.2	45111807

Approvals

Approvals

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Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

EAC

cULus Recognized 