

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)

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918890360

Technical data

Dimensions

Width	204 mm
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Technical data

Dimensions

Height	77 mm
Depth	37 mm

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 kbps / 2 Mbps
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 kbps ... 12 Mbps
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 ground 500 V AC 50 Hz 1 min.
	Logic/functional 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
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16

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Standards and Regulations

Connection in acc. with standard	CUL
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27242208
eCl@ss 4.0	27240600
eCl@ss 4.1	27250200
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208
eCl@ss 9.0	27242208

ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001423
ETIM 6.0	EC001423
ETIM 7.0	EC001423

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	45111807
UNSPSC 11	45111807
UNSPSC 12.01	45111807
UNSPSC 13.2	39122114
UNSPSC 18.0	39122114
UNSPSC 19.0	39122114
UNSPSC 20.0	39122114
UNSPSC 21.0	39122114

Accessories

Accessories

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Accessories

Data plug

D-SUB bus connector - SUBCON 9/F-SH - 2761499



D-SUB plug, 9-pos. female connector, one cable entry < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

D-SUB bus connector - SUBCON 9/M-SH - 2761509



D-SUB connector, 9-pos., male connector, one cable entry < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348



D-SUB plug, 9-pos., pin, axial version with two cable entries, below 35°, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks

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