Extract from the online catalog

IBS-PB CT 24 IO GT-T

Order No.: 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

Commercial data	
GTIN (EAN)	4 017918 890360
sales group	K030
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 125 (AX-2005)

Product notes

WEEE/RoHS-compliant since: 08/12/2008

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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)

Technical data

Interfaces

Interface	INTERBUS remote bus (incoming/outgoing)
Type of connection	D-SUB-9 male connector
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
Type of connection	D-SUB-9 male connector
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

Local functions

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

General data

Width	204 mm
Height	77 mm
Depth	37 mm
Weight	340 g
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

Certificates / Approvals

Certification CUL, GOST, UL

Accessories

Item	Designation	Description
Plug/Adapter		
2761499	SUBCON 9/F-SH	D-SUB connector, 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
2761509	SUBCON 9/M-SH	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
2744348	SUBCON-PLUS-PROFIB	D-SUB connector, 9-pos., male connector, two cable entries < 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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