

# 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)               | <br>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 mm <sup>2</sup> |
| Conductor cross section solid max.      | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.   | 1.5 mm <sup>2</sup>  |
| 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                                                                                                                                                                                                                           |
|---------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Plug/Adapter</b> |                    |                                                                                                                                                                                                                                       |
| 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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