

Coupling module - IBS-PB CT 24 IO GT-LK-OPC



2862796

<https://www.phoenixcontact.com/us/products/2862796>

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I/O coupling module (gateway) for a PROFIBUS-DP system, FO and D-SUB-9, 24 V DC, IP20 protection

Product Description

Coupling module IBS-PB CT 24 IO GT-LK-OPC of the CT-Gateway product family links the fieldbus systems PROFIBUS and INTERBUS at the I/O level. In its function, it corresponds to two normal I/O modules, the inputs and outputs of which are connected crosswise. Up to 10 words of user data can be exchanged directly and without detours bidirectionally via the controller. The data width can be configured between one byte and ten words by means of a rotary switch. The module is installed directly in both remote buses. The bus is connected to PROFIBUS via a 9-pos. D-SUB connector. The connection to INTERBUS is based on fiber optic technology and is implemented via F-SMA connectors. The module works with optical path regulation, which automatically readjusts the emissivity of the FO diodes in the case of ageing or slight damage, thus guaranteeing smooth operation. The gateway is equipped with floating bus lines as well as a redundant supply of the 24 V supply. A total of 32 status LEDs (16 for each bus line) are used to display the signal states of the output word or byte selected via a key and represented on a 7-segment display. In this case, the output information for one bus is the input information of the other. Diagnostics LEDs and configurable fault messages (I/O error message or static diagnostics) support the user and ensure reliable operation.

Your advantages

- PROFIBUS DP
- Redundant power supply
- Electrical isolation
- D-SUB bus connection
- Fiber optic remote bus connections for INTERBUS
- Diagnostic and status indicators

Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2862796 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | C21 |
| Product Key | DRIA12 |
| Catalog Page | Page 125 (AX-2005) |
| GTIN | 4017918909604 |
| Weight per Piece (including packing) | 393.5 g |
| Weight per Piece (excluding packing) | 340 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

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Technical Data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

Product properties

| | |
|--------------|------------------|
| Type | Block design |
| Product type | Gateways/Proxies |

Electrical properties

| | |
|--------------------|---|
| 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. |
| Protective circuit | Surge protection |
| | Reverse polarity protection; Serial diode |
| Power dissipation | 3.6 W |

Supply

| | |
|-----------------------------|---------------------|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V ... 30 V |
| Residual ripple | 1.2 V _{PP} |
| Max. current consumption | 200 mA |
| Typical current consumption | 150 mA |

Connection data

| | |
|-----------------------------------|--|
| Conductor cross section, rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 26 ... 16 |

Interfaces

INTERBUS remote bus (incoming/outgoing)

| | |
|----------------------|---------------------------|
| Connection method | F-SMA |
| Transmission physics | FO, wavelength 660 nm |
| Transmission length | 50 m (300 m PCF, typical) |

PROFIBUS DP remote bus

| | |
|----------------------|--------------|
| Connection method | D-SUB 9 plug |
| Transmission physics | Copper |

System properties

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Local diagnostics

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

Dimensions

| | |
|--------|--------|
| Width | 204 mm |
| Height | 77 mm |
| Depth | 37 mm |

Environmental and real-life conditions

Ambient conditions

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27242608 |
| ECLASS-10.0.1 | 27242608 |

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC001604 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151602 |
|-------------|----------|

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Environmental Product Compliance

| | |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

D-SUB bus connector

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

<https://www.phoenixcontact.com/us/products/2744348>



D-SUB plug, 9-pos., pin, axial version with two 35° cable entries, 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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