PHŒNIX CONTACT

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

☑ Fiber optic remote bus connections for INTERBUS

☑ D-SUB bus connection

☑ Electrical isolation

☑ Redundant power supply

☑ Diagnostic and status indicators

☑ PROFIBUS DP

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918909604
Weight per Piece (excluding packing)	340.000 g
Custom tariff number	85389091
Country of origin	Germany
Note	Made to Order (non-returnable)

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	204 mm
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	F-SMA
Transmission physics	FO, wavelength 660 nm
Transmission length	50 m (300 m PCF, typical)
Interface	PROFIBUS DP remote bus
Connection method	D-SUB 9 plug
Transmission physics	Copper

Power supply

Typical current consumption	150 mA
Max. current consumption	200 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	50 m

Local functions

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

General

Weight	340 g
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.14 mm²

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General

Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 4.0	27250200
eCl@ss 4.1	27250200
eCl@ss 5.0	27250200
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001478
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	45111807
UNSPSC 11	45111807
UNSPSC 12.01	45111807
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

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Accessories

Accessories

Data plug

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