

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



2862796

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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
Note	Made to order (non-returnable)
Sales key	DN16
Product key	DR1A12
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

Technical data

Notes

Utilization restriction

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

Product properties

Product type	Gateways/Proxies
Type	Block design

System properties

Local diagnostics

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

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

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



2862796

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

Connection method	D-SUB 9 plug
Transmission physics	Copper

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
---------------	-------------------

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



2862796

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

Classifications

UNSPSC

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

2862796

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com