

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



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
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

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

2862796

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



## 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 <sub>PP</sub>
Max. current consumption	200 mA
Typical current consumption	150 mA

### Connection data

Conductor cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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

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

2862796

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



## 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
---------------	-------------------

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

2862796

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



## Classifications

### ECLASS

ECLASS-9.0	27242608
ECLASS-10.0.1	27242608

### ETIM

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

### UNSPSC

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

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

2862796

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



## 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"
------------	--

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



2862796

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

## 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

---

Phoenix Contact 2022 © - 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](mailto:info@phoenixcon.com)