

https://www.phoenixcontact.com/us/products/2861580



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Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected devices.

Your advantages

- · Remote bus connections using copper technology
- An Inline station can be supplied with all of the required 24 V voltages for low-level signals
- · Automatic configuration of the outgoing interface as a remote bus or local bus interface
- Up to 15 connected terminals with remote bus branch supported
- · Electrical isolation of the remote bus segments

Commercial data

Item number	2861580
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI111
GTIN	4017918894436
Weight per piece (including packing)	264 g
Weight per piece (excluding packing)	214 g
Customs tariff number	85389099
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	135 119,8 100 0 0 0 0
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

Notes

Note on application

Note on application	Only for industrial use
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

Interfaces

INTERBUS

Number of interfaces	2
Connection method	Inline shield connector
Transmission speed	500 kbps
Transmission physics	Copper

Remote bus branch / Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

System limits

• • • • • • • • • • • • • • • • • • • •	
Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 62
Number of supported branch terminals with remote bus branch	max. 15

Module

Module	
ID code (dec.)	04
ID code (hex)	04
Length code (hex)	00



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Length code (dec)	00
Process data channel	0 bit
Input address area	0 bit
Output address area	0 bit
Register length	0 bit
duct properties	
Product type	I/O component
Product family	Inline
Туре	modular
Scope of supply	including Inline connectors and marking fields
Diagnostics messages	I/O error yes, if the segment voltage U_S is not present
sulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ctrical properties	
Maximum power dissipation for nominal condition	3 W
Protective circuit	Short-circuit protection of the communications power; electronic
	Short-circuit protection of the analog supply; electronic
	Surge protection (segment supply, main supply, bus coupler supply); Input protective diodes (can be destroyed by permane overload)Pulse loads up to 1500 W are short circuited by the input protective diode.
	Protection against polarity reversal (segment supply/main supply); Parallel diodes for protection against polarity reversal; the event of an error the high current flowing through the diodes causes the fuse connected upstream to blow.
	Protection against polarity reversal (bus coupler supply); Serial diode in the lead path of the power supply unit; in the event of a error only a low current flows. In the event of an error, no fuse trips within the external power supply unit.
otentials: Bus coupler supply U _{BK} ; Communications power oupler supply.	$\rm U_L$ (7.5 V) and the analog supply $\rm U_{ANA}$ (24 V) are generated from the bus
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
Current draw	max. 1.25 A (with max. number of connected I/O terminal block
	typ. 100 mA (without connected I/O terminal blocks)
otentials: Communications power (U _L)	
Supply voltage	7.5 V DC
.,,	
otentials: Supply of analog modules (U _{ANA})	
otentials: Supply of analog modules (U _{ANA}) Supply voltage	24 V DC



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Supply voltage	24 V DC (via Inline connector)
Supply voltage range	$19.2\ V\ DC\\ 30\ V\ DC$ (including all tolerances, including ripple
otentials: Segment circuit supply (U _S)	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
ectrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply, incoming remote bus / 5 V supply outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, incoming remote bus / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / I/O (U_M , U_S)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / communications power ($U_{\rm BK},U_{\rm L},U_{\rm ANA}$)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Communications power ($\mathbf{U}_{\mathrm{BK}},\mathbf{U}_{\mathrm{L}},\mathbf{U}_{\mathrm{ANA}}$) / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Communications power (U $_{\rm BK},~{\rm U_L},~{\rm U_{ANA}})$ / I/O (U $_{\rm M},~{\rm U_S})$	500 V AC, 50 Hz, 1 min
Test voltage: I/O (U _M , U _S) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology Connection name

Conductor connection	
Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm² 1.5 mm²
Conductor cross-section flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
Stripping length	8 mm

Inline connector

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² 1.5 mm²
Conductor cross-section, flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation) -25	5 °C 55 °C
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Degree of protection	IP20		
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)		
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)		
Ambient temperature (storage/transport)	-25 °C 85 °C		
Permissible humidity (operation)	10 % 95 % (non-condensing)		
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)		
Standards and regulations			
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)		
Mounting			
Mounting type	DIN rail mounting		

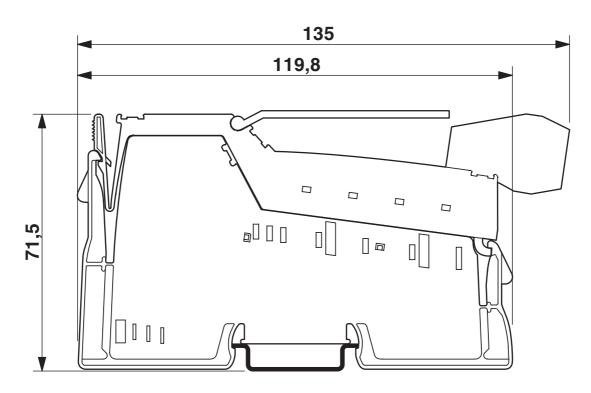


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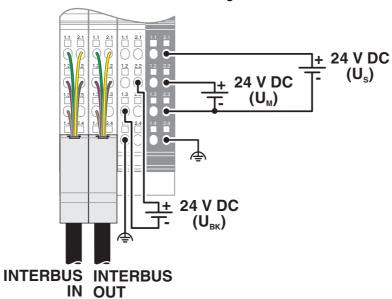


Drawings

Dimensional drawing



Connection diagram

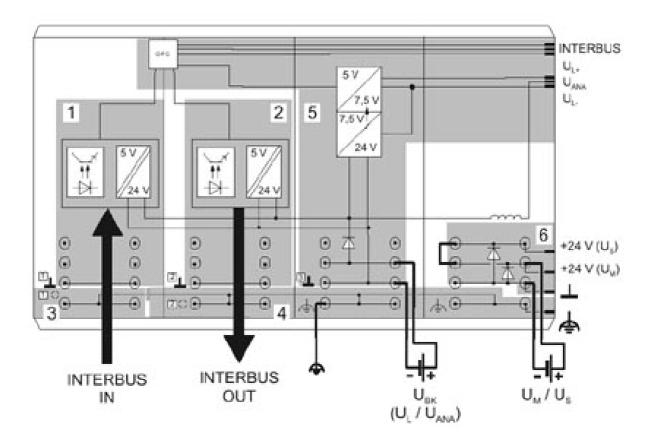




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Block diagram





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Approvals

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EAC

Approval ID: TR TS_S_03508-21



DNV GL

Approval ID: TAA00001KV



BV

Approval ID: 20977/C1 BV

BSH

Approval ID: 658a



RINA

Approval ID: ELE121121XG

ABS

Approval ID: 22-2226444-PDA



cULus Recognized

Approval ID: E140324



LR

Approval ID: LR23398855TA



cULus Listed

Approval ID: E199827



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Classifications

ECLASS

	ECLASS-13.0	27242608		
	ECLASS-15.0	27242608		
ETIM				
	ETIM 9.0	EC001604		
UN	ISPSC			

UNSPSC 21.0 32151600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Lead(CAS: 7439-92-1)
SCIP	f063e663-09ff-4353-9f8d-0418b40ec074

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