

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
Catalog page	Page 107 (C-6-2019)
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	135 119,0 0 0 0 0 0
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Interfaces

INTERBUS

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

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	
ID code (dec.)	04
ID code (hex)	04
Length code (hex)	00
Length code (dec)	00
Process data channel	0 bit
Input address area	0 bit



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Output address area	0 bit
Register length	0 bit
oduct properties	
Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
Diagnostics messages	I/O error yes, if the segment voltage U _S is not present
nsulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ectrical properties	
Maximum power dissipation for nominal condition	30 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 permaner 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.
Potentials: Bus coupler supply U _{BK} ; Communications potentials: Bus coupler supply.	ower U_L (7.5 V) and the analog supply 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)
Potentials: Communications power (U _L)	
Supply voltage	7.5 V DC
Potentials: Supply of analog modules (U _{ANA})	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Potentials: Main circuit supply (U _M)	
Supply voltage	24 V DC (via Inline connector)
	19.2 V DC 30 V DC (including all tolerances, including ripple)



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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)
Electrical 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 ($\mathrm{U_{M}},\mathrm{U_{S}}$)	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 ($\mathrm{U_{M}},\mathrm{U_{S}}$) / functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Inline connector	
Conductor connection		
Connection method	Spring-cage connection	
Conductor cross section rigid	0.08 mm ² 1.5 mm ²	
Conductor cross section flexible	0.08 mm ² 1.5 mm ²	
Conductor cross section AWG	28 16	
Stripping length	8 mm	

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² 1.5 mm ²
Conductor cross section AWG	28 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C
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



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	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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Classifications

UNSPSC 21.0

ECLASS

27242608			
27242608			
27242608			
ETIM			
EC001604			
UNSPSC			

32151600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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