

https://www.phoenixcontact.com/us/products/2701150



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Inline, Bus coupler, INTERBUS, Inline shield connector, Extreme conditions version, 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
- · Electrical isolation
- · Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs

#### Commercial data

Item number	2701150
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI111
Catalog page	Page 107 (C-6-2019)
GTIN	4046356713771
Weight per piece (including packing)	283.3 g
Weight per piece (excluding packing)	214 g
Customs tariff number	85389091
Country of origin	DE



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### Technical data

#### **Dimensions**

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

#### Interfaces

### **INTERBUS**

Number of interfaces	2 (Connected to functional ground with a capacitor)
Connection method	Inline shield connector
Transmission speed	500 kbps
Transmission physics	Copper
Inline local bus	
Number of interfaces	1
Connection method	Inline data jumper

500 kbps

### System properties

Transmission speed

### 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	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
Input address area	0 Byte
Output address area	0 Byte
Register length	0 bit

### Product properties

Туре	modular
Product type	I/O component



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Product family	Inline
Scope of delivery	including Inline connectors and marking fields
Special properties	Extreme conditions version
ectrical properties	
Maximum power dissipation for nominal condition	30 W
Protective circuit	Reverse polarity protection
Potentials: Bus coupler supply $U_{BK}$ ; Communications power $U_L$ (7.5 V) coupler supply.	and the analog supply $U_{\text{ANA}}$ (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 blocks
	typ. 100 mA (without connected Inline I/O terminals)
Potentials: Communications power (U <sub>L</sub> )	
Supply voltage	7.5 V DC ±5 %
Potentials: Supply of analog modules (U <sub>ANA</sub> )	
Supply voltage	24 V DC
Supply voltage Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Cappi, Tollago Taligo	10.2 v 20 co v 20 (molecum di notarioco, molecum di nepro)
Potentials: Main circuit supply (U <sub>M</sub> )	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Potentials: Segment circuit supply (U <sub>S</sub> )	
Supply voltage	24 V DC
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 ( ${\rm U_{BK}},{\rm U_L},{\rm U_{ANA}}$ )	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: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: Communications power ( $U_{BK}$ , $U_{L}$ , $U_{ANA}$ ) / I/O ( $U_{M}$ , $U_{S}$ )	500 V AC, 50 Hz, 1 min.
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### Connection data

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Connection	rechnology

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

#### 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 °C 55 °C
	-40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Degree of protection	IP20
Air pressure (operation)	80 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)	-40 °C 85 °C
Permissible humidity (operation)	10 % 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % 95 % (according to DIN EN 61131-2)

### Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### Mounting



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### Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608
ETIM	
ETIM 9.0	EC001604
UNSPSC	

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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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