2742094

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INTERBUS bus coupler, copper connection, 24 V DC, without accessories

Product description

The INTERBUS bus terminal connects the terminals of an Inline station to the INTERBUS network. Either a copper or a fiber optic connection is used for connecting to the INTERBUS remote bus. Accordingly, the connection is made using an INTERBUS Inline shield plug (copper). The bus terminal performs the following functions within an Inline station:

- Updates the INTERBUS remote bus signals
- Disconnects the outgoing remote bus or the connected I/O modules via software commands
- Supplies the connected I/O modules using an integrated power supply unit
- Connects to the functional ground by snapping onto the DIN rail.

The Inline terminals can be marked using hinged marking fields. The fields have insert cards that can be marked individually according to the application. In addition, the ZB-FM-6- zack marker strip is available for marking the terminal points.

Note the following during configuration:

The total logic current of all the terminals connected to an Inline bus terminal must not exceed the permissible total current of 2 A. Depending on the station configuration, the number of terminals that can be connected may be less than 63.

Your advantages

- Remote bus connections using copper technology
- Electrical isolation

Commercial data

Item number	2742094
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI111
Catalog page	Page 39 (AX-2007)
GTIN	4017918810863
Weight per piece (including packing)	188 g
Weight per piece (excluding packing)	161.01 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

	erties

Туре	modular
System properties	
INTERBUS-Master	
Number of devices with parameter channel	63
Number of supported branch terminals with remote bus branch	max. 15
Module	
ID code (dec.)	04
ID code (hex)	4
Length code (hex)	00
Input address area	0 Byte

0 Byte

Electrical properties

Output address area

communications power, 24 V analog supply, 24 V bus coupler

Protective circuit	Reverse polarity protection
Potentials: Bus coupler supply $\rm U_{BK}$; Communications power $\rm U_L$ (7.5 coupler supply.	V) and the analog supply $\mathrm{U}_{\mathrm{ANA}}$ (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 _L)	
Supply voltage	7.5 V DC ±5 %
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
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Potentials: Segment circuit supply (U _S)	
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	500 V AC, 50 Hz, 1 min.



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supply	
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_{BK} , U_L , 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 $_{\rm BK},~{\rm U}_{\rm L},~{\rm U}_{\rm ANA})$ / I/O (U $_{\rm M},~{\rm U}_{\rm S})$	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V main supply, 24 V segment supply/functional ground	500 V AC, 50 Hz, 1 min.

Connection data

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

Interfaces

INTERBUS

No. of channels	2 (Connected to functional ground with a capacitor)
Connection method	Inline shield connector
Number of positions	6
Transmission speed	500 kbps
Transmission physics	Copper
line local bus	

8-pos. Inline connector

Dimensions

Connection method

Dimensional drawing	135 119,8 2000 0 0 0 0
Width	48.8 mm
Height	119.8 mm



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Mounting type



en °C 55 °C
°C 55 °C
n
U
kPa 106 kPa (up to 3000 m above sea level)
kPa 106 kPa (up to 3000 m above sea level)
°C 85 °C
% 85 % (in the range of -25°C +55°C, appropriate asures against increased humidity (> 85%) must be taken.)
% 85 % (Slight temporary condensation may sometimes lear on the housing, e.g. when the terminal block is brought of a vehicle into an enclosed room.)

DIN rail mounting

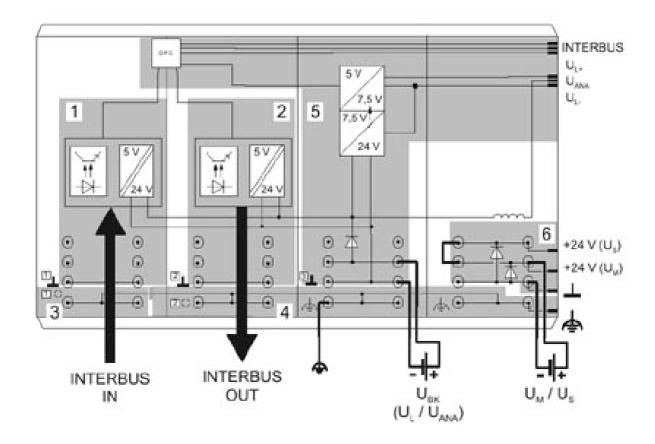
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Drawings

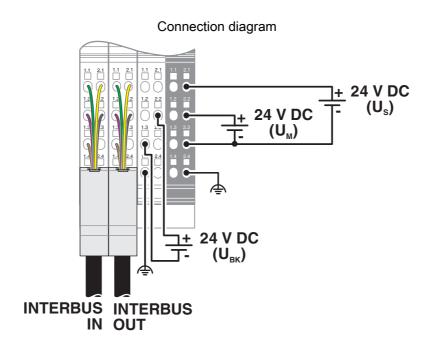
Block diagram



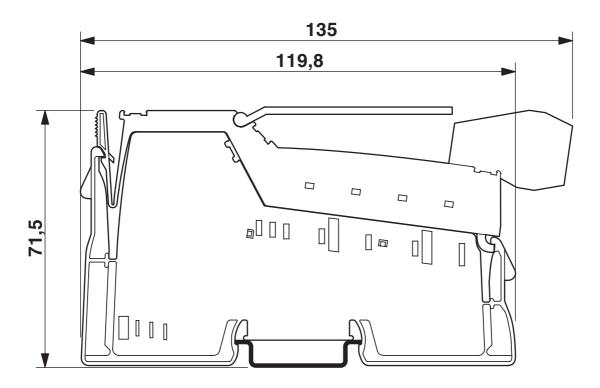
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Dimensional drawing





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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)

No substance above 0.1 wt%



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Accessories

IB IL BK-PLSET/CP - Connector set

2860374

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Connector set for Inline bus coupler, color-coded

IB IL FIELD 2 - Marking field

2727501

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Marking field, width: 12.2 mm





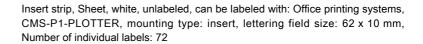
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ESL 62X10 - Insert strip

0809492

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E/UK - End bracket

1201442

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End bracket, Mounting on a DIN rail NS 32 or NS 35, material: PA, color: gray

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