

2862000

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Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 2 Mbps, 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	2862000
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI111
Catalog page	Page 245 (AX-2009)
GTIN	4017918974640
Weight per piece (including packing)	268.4 g
Weight per piece (excluding packing)	142 g
Customs tariff number	85389091
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

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Interfaces

INTERBUS

Number of interfaces	2
Connection method	Inline shield connector
Transmission speed	2 Mbps
Transmission physics	Copper
Remote hus branch / Inline local hus	

Remote bus branch / Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	2 Mbps

System properties

System limits

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 anda (dan)	0.4

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 $\mathbf{U}_{\mathbf{S}}$ is not present
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 permanent 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; in 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 ar 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 power U_L coupler supply.	$_{\rm L}$ (7.5 V) and the analog supply U $_{\rm ANA}$ (24 V) are generated from the bus
coupler supply.	$_{ m L}$ (7.5 V) and the analog supply U $_{ m ANA}$ (24 V) are generated from the bus
coupler supply. Supply voltage	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
coupler supply. Supply voltage Supply voltage range	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply voltage Supply voltage Current draw	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks
Supply voltage Supply voltage Current draw	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks
Supply voltage Supply voltage Current draw Potentials: Communications power (U _L)	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals)
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals)
Supply voltage Supply voltage Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA})	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 %
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 %
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage Supply voltage range	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 %
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage Supply voltage Supply voltage range	24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 % 24 V DC 19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage Supply voltage Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Supply voltage	(7.5 V) and the analog supply U _{ANA} (24 V) are generated from the bus 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 % 24 V DC 19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage Supply voltage Supply voltage range 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) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 100 mA (without connected Inline I/O terminals) 7.5 V DC ±5 % 24 V DC 19.2 V DC 30 V DC (including all tolerances, including ripple)



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Test voltage: 5 V supply, incoming remote bus / 5 V supply	500 V AC, 50 Hz, 1 min.
outgoing remote bus	
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: 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 $_{\rm BK},~{\rm U_L},~{\rm U_{ANA}})$ / I/O (U $_{\rm M},~{\rm U_S})$	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

Connection technology

Connection name	Inline connector
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

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² 1.5 mm ²
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
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)



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Standards and regulations

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Protection class	III (IEC 61140, EN 61140, VDE 0140-1)		
Mounting			
Mounting type	DIN rail mounting		



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Classifications

ECLASS

	ECLASS-11.0	27242608		
	ECLASS-12.0	27242608		
	ECLASS-13.0	27242608		
ETIM				
LIN				
	ETIM 9.0	EC001604		
UNSPSC				
	UNSPSC 21.0	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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