2702372

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Inline, Bus coupler, Modbus/TCP(UDP), RJ45 jack, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

Product description

The bus coupler is intended for use within a Modbus/TCP (UDP) network. The bus coupler creates the link to the Inline I/O system and the industrial I/O signals connected to it. Up to 63 Inline devices can be connected to the bus coupler. The bus coupler supports a maximum of 16 PCP devices.

Your advantages

- · 2 Ethernet ports (with integrated switch)
- Transmission speed of 10 Mbps and 100 Mbps
- · Automatic detection of the transmission speed in the local bus (500 kbps or 2 Mbps)
- · Support for three branch terminals as a remote bus branch (32 remote bus devices in total)
- · Firmware can be updated
- Data exchange via OPC server supported
- · Software interface for access via TCP/IP: Device Driver Interface (DDI)
- Web-based management
- · Security in the network: Port disconnection possible via web-based management

Commercial data

Item number	2702372
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI11B
Product key	DRI11B
GTIN	4055626399386
Weight per piece (including packing)	167 g
Weight per piece (excluding packing)	131 g
Customs tariff number	85176200
Country of origin	DE



2702372

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Technical data

Din	nensions	
	Dimensional drawing	
	Width	40 mm
	Height	119.4 mm
	Depth	71.5 mm
	Note on dimensions	Housing dimensions
Not	es	
Ν	ote on application	
	Note on application	Only for industrial use

Interfaces

Modbus/TCP (UDP)	
Number of interfaces	2 (Connected to functional ground with a capacitor)
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps (Half or full duplex mode (automatic detection, can be adjusted manually))
Transmission physics	Ethernet in RJ45 twisted pair
Inline local bus	
Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)

System properties

System limits	
Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	3
Module	
ID code (hex)	none

Product properties

2702372

U_S)

ground

Test voltage: Communications power (U_BK, U_L, U_ANA) / functional

Test voltage: I/O (U_M , U_S) / functional ground

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Product type	I/O component
Product family	Inline
Туре	modular
Mounting position	any
Scope of supply	including Inline connector and labeling field
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	4.8 W
Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V coupler supply.	$^{\prime})$ 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. 0.95 A (with max. number of connected I/O terminal block
	typ. 74 mA (no local bus devices connected)
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)
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 (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: Ethernet interface 1 / Ethernet interface 2	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 1 / logic (U _{BK} , U _L , U _{ANA})	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 1 / I/O (U_M , U_S)	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 1 / functional ground	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 2 / logic (U _{BK} , U _L , U _{ANA})	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 2 / I/O (U_M , U_S)	1500 V AC, 50 Hz, 1 min
Test voltage: Ethernet interface 2 / functional ground	1500 V AC, 50 Hz, 1 min
Test voltage: Communications power (U _{BK} , U _L , U _{ANA}) / I/O (U _M ,	500 V AC, 50 Hz, 1 min

500 V AC, 50 Hz, 1 min

500 V AC, 50 Hz, 1 min

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Connection data

onnection name	Inline connector
onductor 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
ine 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
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ronmental and real-life conditions nbient conditions Ambient temperature (operation)	-25 °C 55 °C
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ronmental and real-life conditions hbient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport)	-25 °C 55 °C IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -40 °C 85 °C
ronmental and real-life conditions hibient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport)	-25 °C 55 °C IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -40 °C 85 °C 10 % 95 % (non-condensing)
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Drawings







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Internal wiring of connections

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Approvals

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Classifications

ECLASS

	ECLASS-13.0	27242608
E	ΓIM	
	ETIM 9.0	EC001604
U	NSPSC	
	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 "Manufacture 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)

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