2701388

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Inline, Bus coupler, Modbus/TCP(UDP), RJ45 jack, Digital inputs: 8, 24 V DC, connection technology: 3-conductor, Digital outputs: 4, 24 V DC, 500 mA, connection technology: 3-conductor, Extreme conditions version, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connectors and marking fields

Product Description

The bus coupler with integrated I/Os is intended for use within a Modbus/TCP (UDP) network and represents the link to the Inline I/O system. Up to 61 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)
- Auto negotiation
- Autocrossing
- Transmission speed of 10 Mbps and 100 Mbps
- · Automatic detection of the transmission speed in the local bus (500 kbps or 2 Mbps)
- 8 digital inputs, 4 digital outputs (on-board)
- Data exchange via OPC server supported
- Software interfaces for access via TCP/IP: Device Driver Interface (DDI) and High-Level Language Fieldbus Interface (HFI)
- · Web-based management
- 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	2701388
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI11B
Product Key	DRI11B
Catalog Page	Page 103 (C-6-2019)
GTIN	4046356743709
Weight per Piece (including packing)	349 g
Weight per Piece (excluding packing)	349 g
Customs tariff number	85389091
Country of origin	DE

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Technical Data

Dimensions

Dimensional drawing	
Width	80 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Specfications with connectors

Material specifications

Interfaces

2
RJ45 jack
Auto negotiation and autocrossing
10/100 Mbps
Ethernet in RJ45 twisted pair
1
Inline data jumper
500 kbps / 2 Mbps (automatic detection, no combined system)

System properties

Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 61 (The on-board I/Os are two devices)
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	0

Module

ID code (hex)	none
Input address area	8 Bit
Output address area	4 Bit



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Register length	16 Bit
	10 Dit

Input data

Digital	
Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	8
Connection method	Inline connector
Connection technology	3-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC 5 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input voltage U _{IN}	24 V DC
Nominal input current at U _{IN}	typ. 3 mA
Typical input current per channel	typ. 3 mA
Typical response time	approx. 500 µs
Delay at signal change from 0 to 1	1.2 ms
Delay at signal change from 1 to 0	1.2 ms
Protective circuit	Reverse polarity protection; Suppressor diode

Output data

Digital

Output name	Digital outputs
Connection method	Inline connector
Connection technology	3-conductor
Number of outputs	4
Protective circuit	Short-circuit and overload protection; Freewheeling circuit in the output driver
Output voltage	24 V DC -1 V (At nominal current)
Maximum output current per module	max. 2 A
Nominal output voltage	24 V DC
Output current when switched off	max. 10 μA (When not loaded, a voltage can be measured even at an output that is not set.)
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay

Product properties

Туре	modular
Product type	I/O component



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Scope of delivery	including Inline connectors and marking fields
No. of channels	12
Diagnostics messages	Short-circuit or overload of the digital outputs Yes
	Sensor supply failure Yes
	Failure of the actuator supply Yes
Electrical properties	
No. of channels	12
Potentials	
Power consumption	typ. 3 W (entire device)
Protective circuit	Surge protection (segment supply, main supply, bus coupler supply); Suppressor diode, 35 V DC
	Reverse polarity protection (segment supply, main supply, bus coupler supply); Suppressor diode, 35 V DC

Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V) and the analog supply U_{ANA} (24 V) are generated from the bus coupler supply.

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. 0.98 A (with max. number of connected I/O terminal blocks)
	min. 80 mA (without connected I/O terminal blocks)
Potentials: Communications power (U_L)	
Supply voltage	7.5 V DC
	max. 0.8 A 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)
	max. 0.5 A DC
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)
	max. 8 A DC (sum of U _M + U _S)
Current draw	max. 8 A DC
	min. 3 mA (without connected peripherals)
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)
	max. 8 A DC (sum of U _M + U _S)
Current draw	max. 8 A DC
	min. 3 mA (without connected peripherals)

Connection data



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Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross section solid	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
nline 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
Out of the law the	
Stripping length vironmental and real-life conditions Ambient conditions	8 mm
vironmental and real-life conditions	-25 °C 55 °C (Standard)
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vironmental and real-life conditions Ambient conditions Ambient temperature (operation)	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Degree of protection	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) IP20
vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Degree of protection Air pressure (operation)	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) IP20 70 kPa 106 kPa (up to 3000 m above sea level)
vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport)	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level)
vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport)	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) IP20 70 kPa 106 kPa (up to 3000 m above sea level) 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
vironmental and real-life conditions Ambient conditions Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation)	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) 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)
vironmental and real-life conditions Ambient 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 (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: us under extreme ambient conditions" in the data sheet.) 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)
vironmental and real-life conditions Ambient 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) Andards and regulations	-25 °C 55 °C (Standard) -40 °C 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) 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) 10 % 95 % (non-condensing)

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Classifications

ECLASS

ECLASS-10.0.1 27242608 ECLASS-11.0 27242608	ECLASS-9.0	27242608
ECLASS-11.0 27242608	ECLASS-10.0.1	27242608
	ECLASS-11.0	27242608

ETIM

	ETIM 8.0	EC001604				
UN	UNSPSC					
	UNSPSC 21.0	32151600				

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