2692380

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Inline, Bus coupler, Sercos, RJ45 jack, Digital inputs: 8, 24 V DC, connection technology: 3conductor, Digital outputs: 4, 24 V DC, 500 mA, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including inline connectors, marking fields, and end plate

Product description

The bus coupler with integrated I/Os is intended for use within a Sercos[®] network and represents the link to the Inline I/O system. Up to 63 Inline devices can be connected to the bus coupler. The bus coupler supports a maximum of 16 PCP devices. A corresponding SDDML file is available for integrating the Inline station into the programming system. This file can be downloaded at: phoenixcontact.net/product/2692380.

Your advantages

- 2 Ethernet ports
- · Automatic detection of the transmission speed in the local bus (500 kbps or 2 Mbps)
- 8 digital inputs, 4 digital outputs (on-board)
- Minimum Sercos cycle time of 250 µs
- FSP-IO (Function Specific Profile-IO) for modular I/O devices
- · Maximum of 6 realtime connections
- · Hot plugging of participants in Sercos network
- · Diagnostics trace
- Internet Protocol Services (IPS)
- Sercos specification V1.3.1
- · Sercos diagnostic LED S and communication phase LED CP

Commercial data

Item number	2692380
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI11C
Catalog page	Page 103 (C-6-2019)
GTIN	4046356325882
Weight per piece (including packing)	343.6 g
Weight per piece (excluding packing)	298 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

Interfaces

Sercos

Number of interfaces	2
Connection method	RJ45 jack
nline local bus	
Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)

Sercos slave

System properties

Equipment type

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	0
Module	
ID code (hex)	none

Input data

Digital

-	
Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Number of inputs	8
Connection method	Inline connector



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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
Protective circuit	Reverse polarity protection; Suppressor diode

Output data

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 voltage when switched off	max. 500 mV
Output current when switched off	max. 500 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
Signal delay	< 40 µs (t _{on} , no load)
	< 50 µs (t _{on} , load = 0.5 A)
	< 350 µs (t _{off} , no load)
	< 235 µs (t _{off} , load = 0.5 A)
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	max. 25 mA
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)

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Maximum output current per module	max. 2 A
Nominal output voltage	24 V DC
Output voltage when switched off	max. 500 mV
Output current when switched off	max. 500 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
Signal delay	< 40 μs (t _{on} , no load)
	< 50 µs (t _{on} , load = 0.5 A)
	< 350 µs (t _{off} , no load)
	< 235 µs (t _{off} , load = 0.5 A)
Overcurrent shut-down	min. 0.7 A
Output current with ground connection interrupt when switched off	max. 25 mA

Product properties

Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including inline connectors, marking fields, and end plate
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

Maximum power dissipation for nominal condition	25.2 W
Protective circuit	Surge protection, protection against polarity reversal of the supply voltage; 35 V suppressor diode

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.

DC (via Inline connector) V DC 30 V DC (including all tolerances, including ripple)
1. A (with move number of connected 1/O terminal blocks)
1 A (with max. number of connected I/O terminal blocks)
60 mA (without connected I/O terminal blocks)
/ DC

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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)
Current draw	max. 8 A
	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)
Current draw	max. 8 A
	min. 3 mA (without connected peripherals)

Connection data

Connection technology			
Connection name	Inline connector		
Conductor 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		
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 mm ² 1.5 mm ²		
Conductor cross section AWG	28 16		
Stripping length	8 mm		

Environmental and real-life conditions

Ambient conditions		
Ambient temperature (operation)	-25 °C 60 °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)	-40 °C 85 °C	
Permissible humidity (operation)	10 % 95 % (non-condensing)	
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)	

Standards and regulations

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

Mounting type

DIN rail mounting
DIN rail mounting

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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

	ETIM 9.0	EC001604				
UN	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com