

2692380

https://www.phoenixcontact.com/us/products/2692380

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Inline, Bus coupler, Sercos, RJ45 jack, Digital inputs: 8, 24 V DC, connection technology: 3-conductor, 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
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	80 71,5 BUHU
Width	80 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Specfications with connectors

Notes

Note on application

Note on application	Only for industrial use
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Interfaces

Sercos

Number of interfaces	2
Connection method	RJ45 jack
Inline local bus	

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

Sercos

System properties

System limits

Module

ID code (hex)	none

Input data

Digital:



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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
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 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



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Product family Type Scope of supply No. of channels Diagnostics messages trical properties Maximum power dissipation for nominal condition	Inline modular including inline connectors, marking fields, and end plate 12 Short-circuit or overload of the digital outputs yes Sensor supply failure yes Failure of the actuator supply yes
Scope of supply No. of channels Diagnostics messages trical properties	including inline connectors, marking fields, and end plate 12 Short-circuit or overload of the digital outputs yes Sensor supply failure yes
No. of channels Diagnostics messages trical properties	12 Short-circuit or overload of the digital outputs yes Sensor supply failure yes
Diagnostics messages trical properties	Short-circuit or overload of the digital outputs yes Sensor supply failure yes
trical properties	Sensor supply failure yes
· ·	
· ·	Failure of the actuator supply yes
· ·	
Maximum power dissipation for nominal condition	
	6.8 W
Protective circuit	Surge protection, protection against polarity reversal of the supply voltage; 35 V suppressor diode
tentials: Bus coupler supply U_BK ; Communications power U_L (7.9 upler supply.	.5 V) and the analog supply $\rm U_{ANA}$ (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. 1 A (with max. number of connected I/O terminal blocks)
	typ. 60 mA (without connected I/O terminal blocks)
tentials: Communications power (U _L)	
Supply voltage	7.5 V DC
tentials: Supply of analog modules (U _{ANA})	avvas
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
tentials: 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)
tentials: 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)
nection data	
nnection technology	
Connection name	Inline connector
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nductor connection	O. diamond and the
Connection method	Spring-cage connection 0.08 mm² 1.5 mm²



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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 mm² 1.5 mm²
Conductor cross-section, flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16

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
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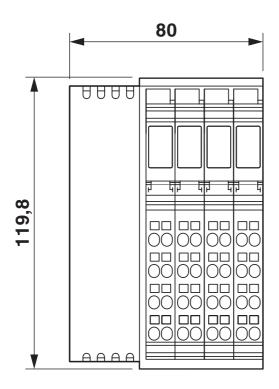


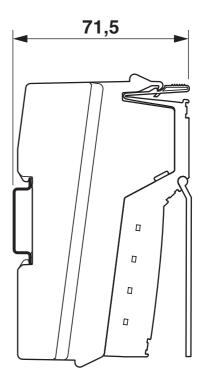
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Drawings

Dimensional drawing





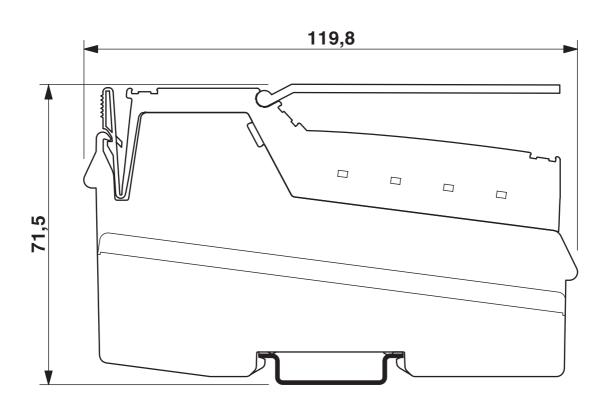


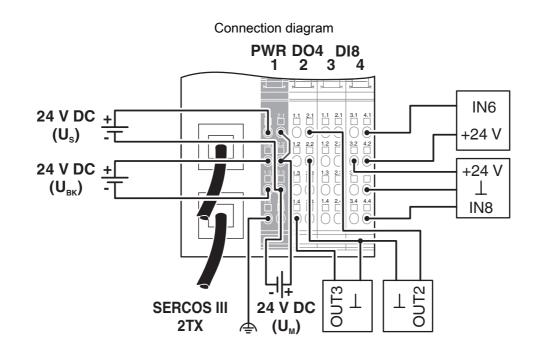
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Dimensional drawing



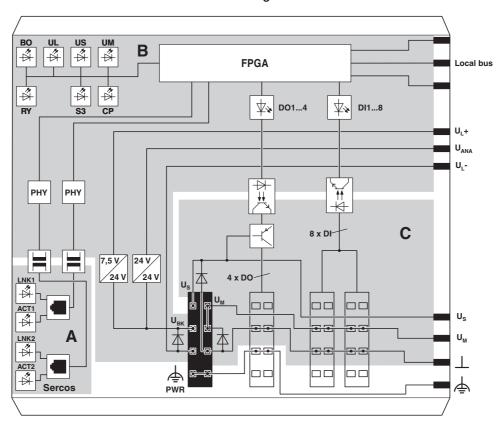




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Block diagram





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2692380



EAC

Approval ID: TR_TS_D_00850-20



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



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Classifications

ECLASS

	ECLASS-13.0	27242608	
	ECLASS-15.0	27242608	
ETIM			
	ETIM 9.0	EC001604	
UNSPSC			
UNSFSC			
	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-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	Lead(CAS: n/a)	
SCIP	304c9b95-6ddf-430e-8bc3-3711d6286f17	

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