

2692380

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 | DRI |
| 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 |



2692380

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

Technical data

Dimensions

| Dimensional drawing | 10000 71,5 |
|---------------------|-------------------------------|
| 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

|--|

Input data

Digital

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



2692380

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

| 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) |
| | $< 235 \mu s (t_{off}, load = 0.5 A)$ |
| 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 |



2692380

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

| 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 |
| ectrical 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 coupler supply. | 5 V) 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. 1 A (with max. number of connected I/O terminal blocks) |
| | typ. 60 mA (without connected I/O terminal blocks) |
| Potentials: Communications nauvar (LL) | |
| Potentials: Communications power (U _L) Supply voltage | 7.5 V DC |
| 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) |
| 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) |
| onnection data | |
| Connection technology | |
| • " | |
| Connection name | Inline connector |
| Connection name Conductor connection | Inline connector |
| | Inline connector Spring-cage connection |
| Conductor connection | |
| Conductor connection Connection method | Spring-cage connection |
| Conductor connection Connection method Conductor cross section rigid | Spring-cage connection 0.08 mm² 1.5 mm² |



2692380

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

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 |
| 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

Mounting

| Mounting type | DIN rail mounting |
|---------------|-------------------|
| | DIN rail mounting |

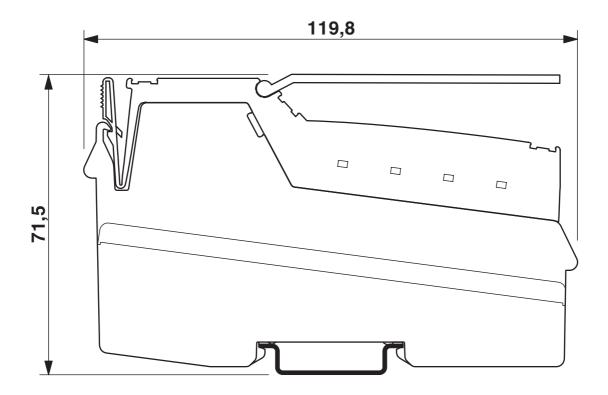


2692380

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

Drawings

Dimensional drawing

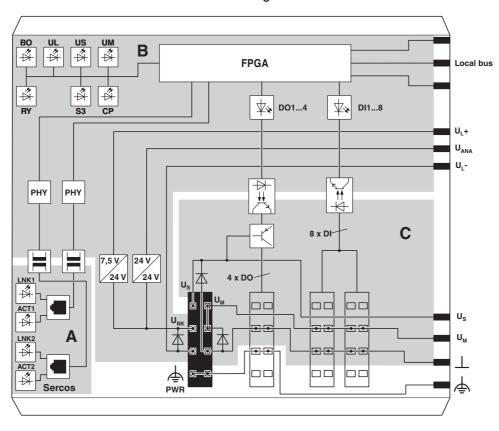




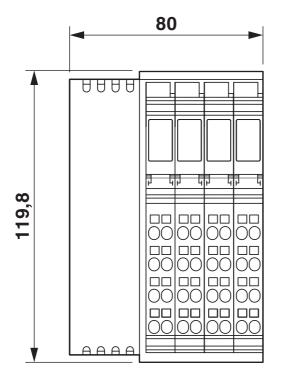
https://www.phoenixcontact.com/lt/products/2692380

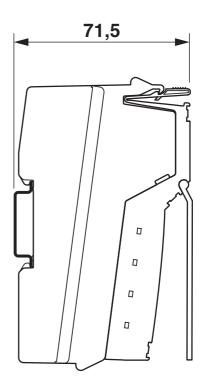


Block diagram



Dimensional drawing

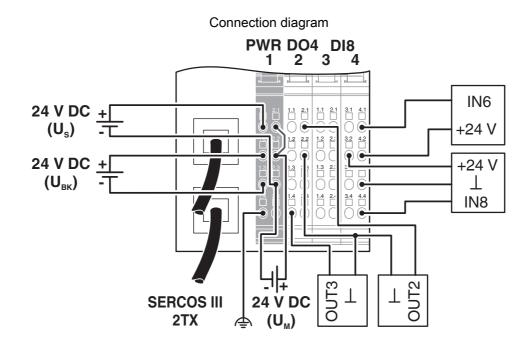






2692380

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





2692380

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

Approvals

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



EAC-RoHS

Approval ID: RU*-DE*HB.B.00386/20



EAC

Approval ID: TR_TS_D_00850-20



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

UAE-RoHS

Approval ID: 22-04-13087

cULus Listed



2692380

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

Classifications

UNSPSC 21.0

ECLASS

| ECL | ASS-11.0 | 27242608 |
|-------|----------|----------|
| ECL | ASS-12.0 | 27242608 |
| ECL | ASS-13.0 | 27242608 |
| ETIM | | |
| ETIM | И 9.0 | EC001604 |
| UNSPS | С | |

32151600



2692380

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

Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| | |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Phoenix Contact 2024 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact UAB Svitrigailos str. 11B 03228 Vilnius +370 5 2106321 balticinfo@phoenixcontact.com