

Inline terminal - IB IL 24 DI 4-XC-PAC - 2701152

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Inline digital input terminal, version for extreme conditions, complete with accessories (connector plug and labeling field), 4 inputs, 24 V DC, 3-conductor connection technology

Product description

The terminal is designed for use within an Inline station. It is used to acquire digital input signals.

Product Features

- 4 digital inputs
- Connection of sensors in 2 and 3-wire technology
- Maximum permissible load current per sensor: 250 mA
- Maximum permissible load current from the terminal: 1 A
- Diagnostic and status indicators
- Can be used under extreme ambient conditions
- Coated PCBs
- Extended temperature range T2 (-40°C ... +55°C)



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 100.0 GRM |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|-------|---------|
| Width | 12.2 mm |
|-------|---------|

Inline terminal - IB IL 24 DI 4-XC-PAC - 2701152

Technical data

Dimensions

| | |
|--------------------|--------------------|
| Height | 140.5 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -40 °C ... 55 °C (See also the "Tested successfully: Use under extreme ambient conditions" section of the data sheet.) |
| | -40 °C ... 60 °C (At $U_s < 24.5$ V; see also the "Tested successfully: Use under extreme ambient conditions" section of the data sheet.) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| GRP_Temperature class | T2 (-40°C ... 55°C, EN 50155) |
| Permissible humidity (operation) | 10 % ... 95 % (according to DIN EN 61131-2) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2) |
| 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) |
| Degree of protection | IP20 |

General

| | |
|-------------------------------|--|
| Weight | 66 g |
| Note on weight specifications | with connector |
| Mounting type | DIN rail |
| Operating mode | Process data operation with 4 bits |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| Test section | 5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min |
| | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min |
| | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min |
| | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min |

Interfaces

| | |
|--------------------|--------------------|
| Fieldbus system | Lokalbus |
| Designation | Inline local bus |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBit/s |

Power supply for module electronics

| | |
|----------------------------|--|
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Supply current | 40 mA |
| Communications power U_L | 7.5 V (via voltage jumper) |

Inline terminal - IB IL 24 DI 4-XC-PAC - 2701152

Technical data

Power supply for module electronics

| | |
|---------------------|---------------------------------|
| Current consumption | max. 40 mA (from the local bus) |
| Power consumption | max. 0.3 W (at U_L) |

Inline potentials

| | |
|--------------------------------|-------------------------|
| Communications power U_L | 7.5 V DC |
| Current consumption from U_L | max. 40 mA |
| Segment supply voltage U_S | 24 V DC (nominal value) |
| Current consumption from U_S | max. 1 A |
| Power consumption | max. 0.3 W (at U_L) |

Digital inputs

| | |
|-----------------------------------|--------------------------------|
| Input name | Digital inputs |
| Connection method | Spring-cage connection |
| | 2, 3-wire |
| Number of inputs | 4 (EN 61131-2 type 1) |
| Typical response time | < 1 ms |
| Input voltage | 24 V DC (via voltage jumper) |
| Input voltage range "0" signal | -3 V DC ... 5 V DC |
| Input voltage range "1" signal | 15 V DC ... 30 V DC |
| Nominal input current at U_{IN} | min. 3 mA (at nominal voltage) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27240404 |
| eCl@ss 4.1 | 27240404 |
| eCl@ss 5.0 | 27242204 |
| eCl@ss 5.1 | 27242604 |
| eCl@ss 6.0 | 27242604 |
| eCl@ss 7.0 | 27242604 |
| eCl@ss 8.0 | 27242604 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001433 |
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |

Inline terminal - IB IL 24 DI 4-XC-PAC - 2701152

Classifications

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 39121311 |
| UNSPSC 12.01 | 39121311 |
| UNSPSC 13.2 | 39121311 |

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / cULus Recognized


Ex Approvals

Approvals submitted

Approval details

UL Recognized 

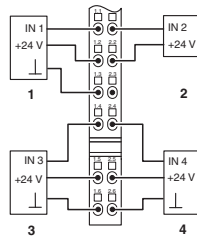
cUL Recognized 

cULus Recognized 

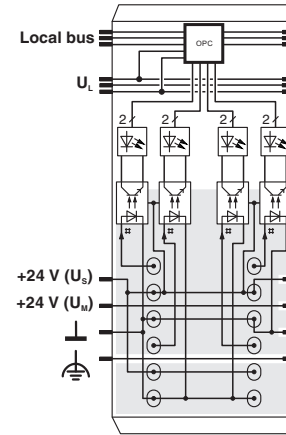
Drawings

Inline terminal - IB IL 24 DI 4-XC-PAC - 2701152

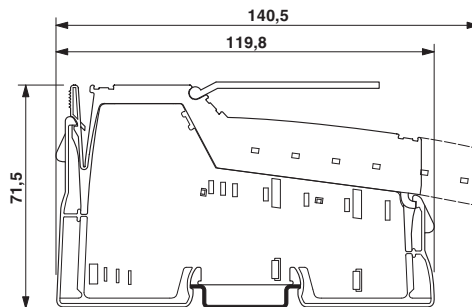
Connection diagram



Block diagram



Dimensioned drawing



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9