

Inline terminal - IB IL 24 DI8/HD-PAC - 2700173

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Inline digital input terminal, complete with accessories (connector plug and labeling field), 8 inputs, 24 V DC, 1-wire connection technology

Product Features

- 8 digital inputs
- Connection of sensors in single-wire technology
- Diagnostic and status indicators

Key commercial data

| | |
|-------------------------|---------------|
| package_quantity | 1 |
| GTIN | 4046356492485 |

Technical data

Note:

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

Dimensions

| | |
|---------------------------|--------------------|
| Width | 12.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| 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 | 60 g |
| Note on weight specifications | With connector |
| Mounting type | DIN rail |

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Technical data

General

| | |
|-------------------------|--|
| 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 |
| Test section | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min |
| Test section | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min |
| Test section | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min |

Interfaces

| | |
|---------------------------|--------------------|
| Fieldbus system | Lokalbus |
| Name | 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) |
| Communications power U_L | 7.5 V (via voltage jumper) |
| Current consumption | max. 30 mA (from the local bus) |
| Power consumption | max. 0.25 W (at U_L) |

Inline potentials

| | |
|--|-------------------------|
| Communications power U_L | 7.5 V DC |
| Current consumption from U_L | max. 30 mA DC |
| Segment supply voltage U_S | 24 V DC (nominal value) |
| Current consumption from U_S | max. 5.5 mA DC |

Digital inputs

| | |
|---|------------------------------|
| Input name | Digital inputs |
| Connection method | Spring-cage connection |
| Connection method | 1-wire |
| Number of inputs | 8 (EN 61131-2 types 1 and 3) |
| 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 | 11 V DC ... 30 V DC |
| Nominal input current at U_{IN} | typ. 2.4 mA |
| Typical input current per channel | 2.4 mA |
| Delay at signal change from 0 to 1 | 1 ms |
| Delay at signal change from 1 to 0 | 1 ms |

classifications

eCl@ss

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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 |

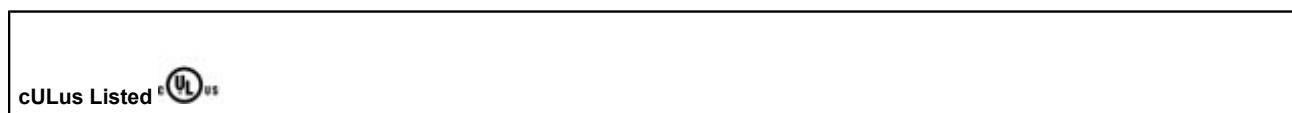
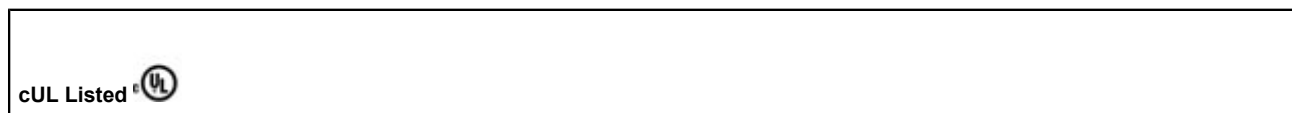
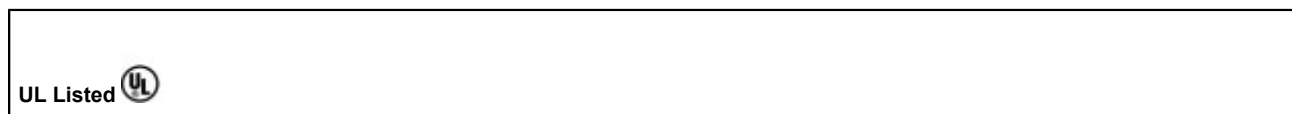
UNSPSC

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

approvals

UL Listed / cUL Listed / cULus Listed / UL Listed / cUL Listed / LR / GL / DNV / ABS / RINA / GL-SW / BSH / BV / GL / cULus Listed /

Approval details



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approvals



LR

GL

DNV

ABS

RINA

GL-SW

BSH

BV



accessories

Plug

IB IL SCN-8 - 2726337



Labeling panel

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accessories

IB IL FIELD 2 - 2727501



I/O component

IB IL PD 24V-PAC - 2862987



IB IL PD GND-PAC - 2862990



Front adapter

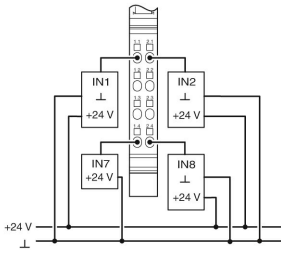
FLKM 14-PA-INLINE/DIO8 - 2900889



Drawings

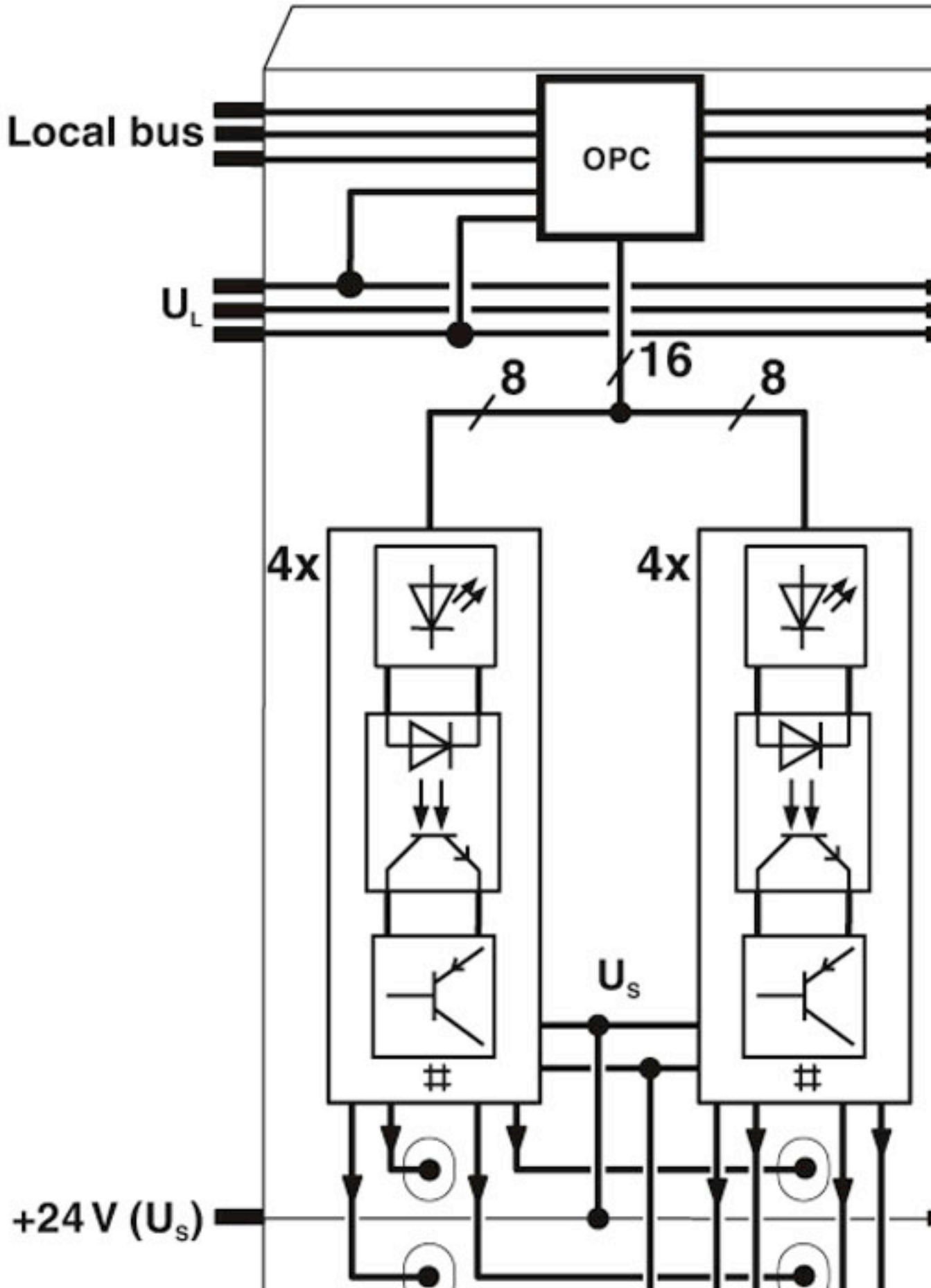
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Connection diagram



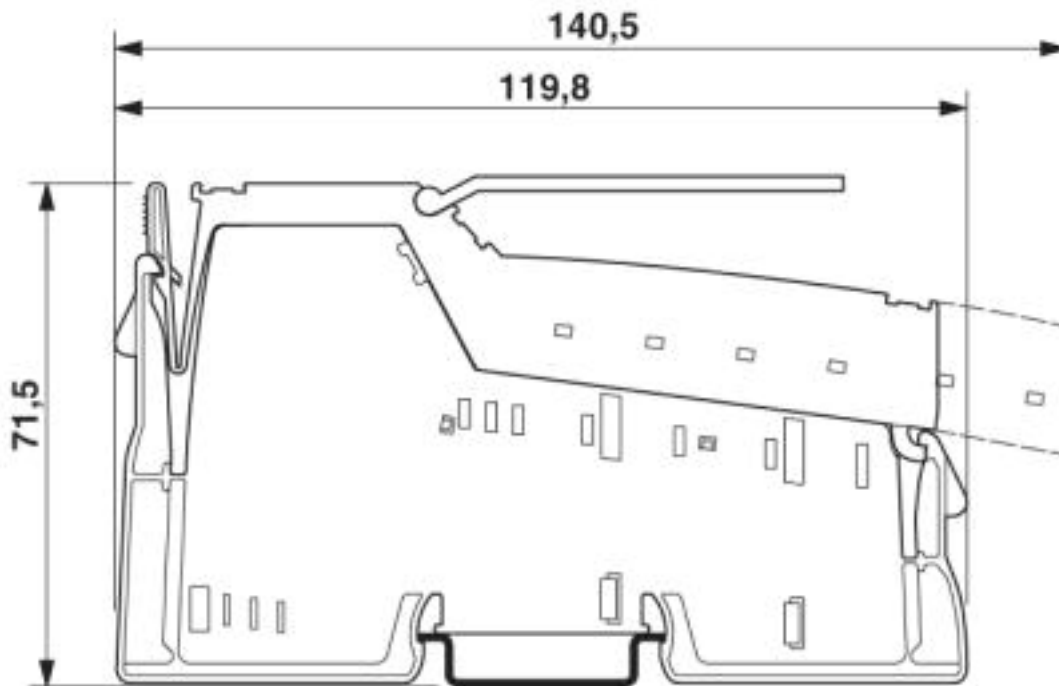
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Block diagram



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Dimensioned drawing



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