

## Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

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), 16 inputs, 24 V DC, 2 and 3-conductor connection technology

### Why buy this product

- 16 digital inputs
- Connection of sensors in 2 and 3-wire technology
- Maximum permissible load current per sensor: 250 mA
- Diagnostic and status indicators
- Can be used under extreme ambient conditions
- Extended temperature range of -40°C ... +70°C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 713801
Weight per Piece (excluding packing)	210.0 g
Custom tariff number	85389091
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Note

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

#### Dimensions

Width	48.8 mm
Height	140.5 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

# Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

## Technical data

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
	-40 °C ... 70 °C (See "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Ambient temperature (storage/transport)	-40 °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

Net weight	210 g
Note on weight specifications	with connectors
Mounting type	DIN rail
Operating mode	Process data mode with one word
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	60 mA
Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption	max. 60 mA (from the local bus)
Power consumption	max. 0.45 W (at $U_L$ )

### Inline potentials

Communications power $U_L$	7.5 V DC
Current consumption from $U_L$	max. 60 mA
Segment supply voltage $U_S$	24 V DC (nominal value)
Current consumption from $U_S$	max. 4 A
Power consumption	max. 0.45 W (at $U_L$ )

# Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

## Technical data

### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3-wire
Number of inputs	16 (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 <sub>IN</sub>	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

### 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

# Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

## Approvals


Ex Approvals


---


Approvals submitted

---

## Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 

## Accessories

### Accessories

#### Labeled terminal marker

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

---

#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



## Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

### Accessories

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



---

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

---

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

---

### Plug

Inline connector - IB IL SCN-12-ICP - 2727611



Connector, color coded, for digital 4, or 16-channel Inline input terminals

---

### Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

## Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

### Accessories

Insert strip - ESL 62X46 - 0809502

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



---

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

---

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

---

Flat zack marker sheet - ZBFM 6/WH:UNBEDRUCKT - 0803618



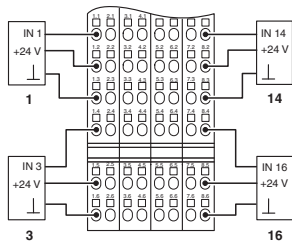
Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5 x 5.5 mm

---

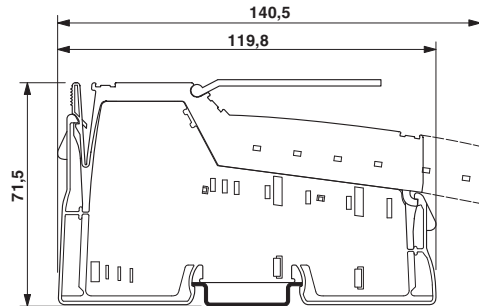
### Drawings

# Inline terminal - IB IL 24 DI 16-XC-PAC - 2701154

Connection diagram



Dimensioned drawing



Block diagram

