

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

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 ECO, Digital input terminal, Digital inputs: 8, 24 V DC, Connection technology: 1-wire, Transmission speed in the local bus 500 kbps, Degree of protection IP20, including Inline connector

Product Description

The terminal is designed for use within an Inline station.

It is used to acquire digital signals.

Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Why buy this product

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

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 355221
GTIN	4055626355221
Weight per Piece (excluding packing)	40.000 g
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

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Technical data

Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	0 °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

Connection data

Designation	Inline connector
Connection method	Spring-cage connection
Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.08 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Stripping length	8 mm

General

Mounting type	DIN rail
Net weight	83.38 g
Note on weight specifications	with connector

Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

Power supply for module electronics

Connection method	Spring-cage connection
Communications power U_L	7.5 V
Current consumption	max. 30 mA (from the local bus)
Power consumption	max. 0.25 W (at U_L)

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Technical data

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 30 mA DC
Segment circuit supply U_S	24 V DC (nominal value)
Current consumption from U_S	max. 5.5 mA DC
Power consumption	max. 0.25 W (at U_L)

Digital inputs

Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3
Connection method	Spring-cage connection
Connection technology	1-wire
Number of inputs	8
Typical response time	1 ms
Input voltage	24 V DC
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

Electrical isolation

Test section	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min.
	7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min.

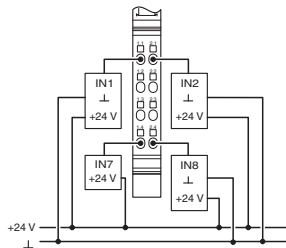
Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
------------------	--------------------------------------

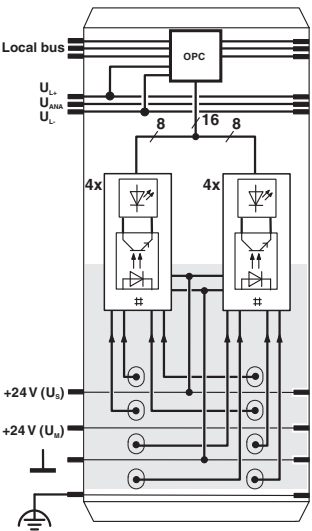
Drawings

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Connection diagram

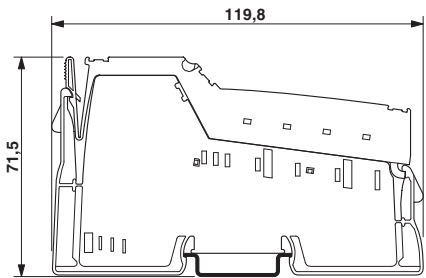


Block diagram



Internal wiring of the terminal points

Dimensional drawing



Classifications

eCl@ss

eCl@ss 5.1	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 5.0	EC001599
----------	----------

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Accessories

Accessories

Front adapter

Front adapters - FLKM 14-PA-INLINE/DIO8 - 2900889



VARIOFACE front adapter for Inline HD modules, for transferring 8 digital signals.

I/O component

Inline terminal - IB IL PD 24V-PAC - 2862987



Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

Inline terminal - IB IL PD GND-PAC - 2862990



Inline terminal for power distribution (GND), complete with accessories, (connector and labeling field) connections for GND

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

Inline terminal - IB IL 24 DI 8/HD-ECO - 2702792

Accessories

Inline connector - IB IL SCN-8 - 2726337

Connector, for digital 1, 2 or 8-channel Inline terminals



Terminal marking

Insert strip - ESL 62X10 - 0809492

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

