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

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Inline ECO, Digital input terminal, Digital inputs: 8 , 24 V DC, connection method: 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.

Your advantages

- 8 digital inputs
- Connection of sensors in single-wire technology

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 355221
GTIN	4055626355221
Weight per Piece (excluding packing)	83.380 g
Custom tariff number	85389099
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
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

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Technical data

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 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.08 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Stripping length	8 mm

General

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

Interfaces

Designation	Inline local bus
No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Designation	Communications power (U_L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	max. 30 mA
Power consumption	max. 0.25 W (at U_L)
Designation	Segment circuit supply (U_S)
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	max. 5.5 mA

Digital inputs

Input name	Digital inputs

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Technical data

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
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 2.4 mA
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
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)

Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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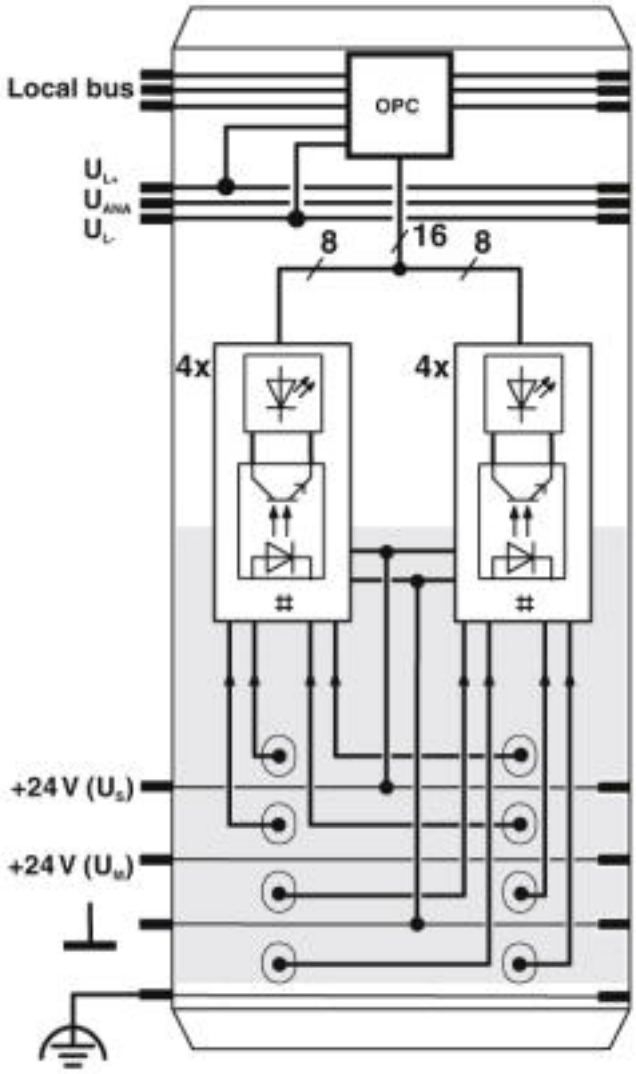
Block diagram



Internal wiring of the terminal points

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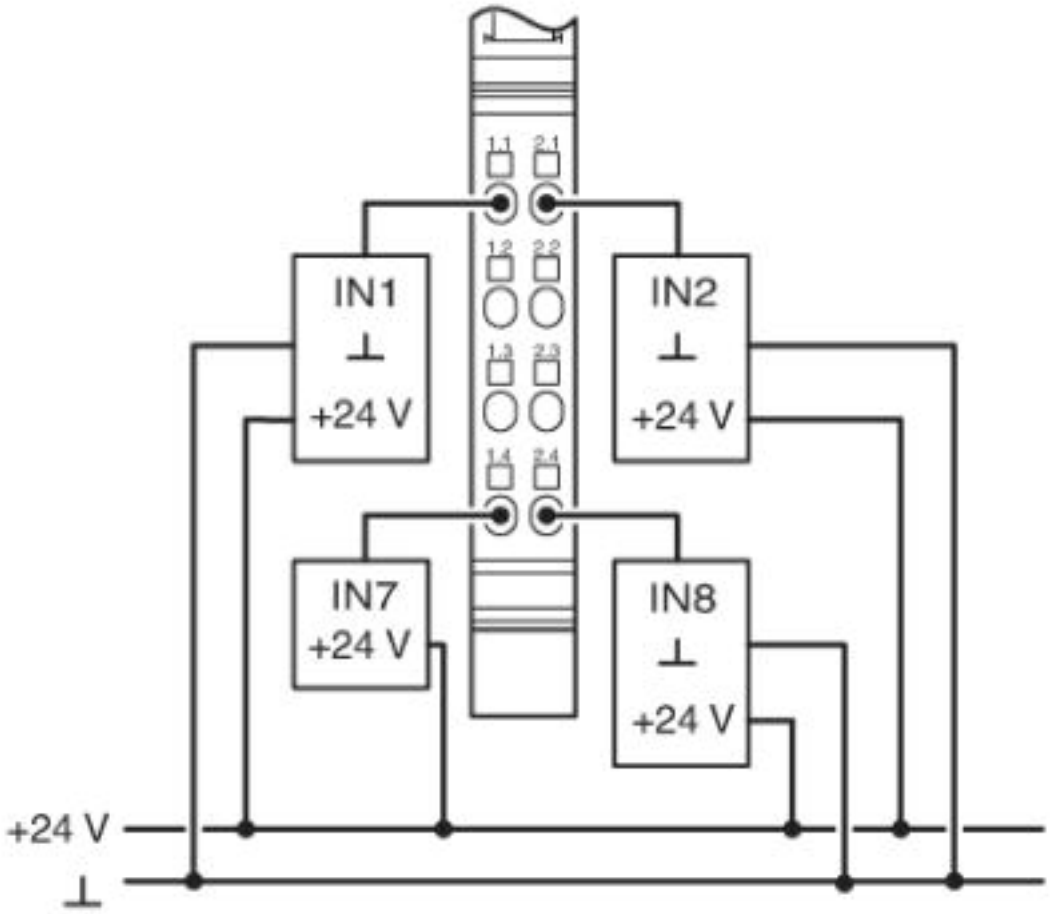
Connection diagram



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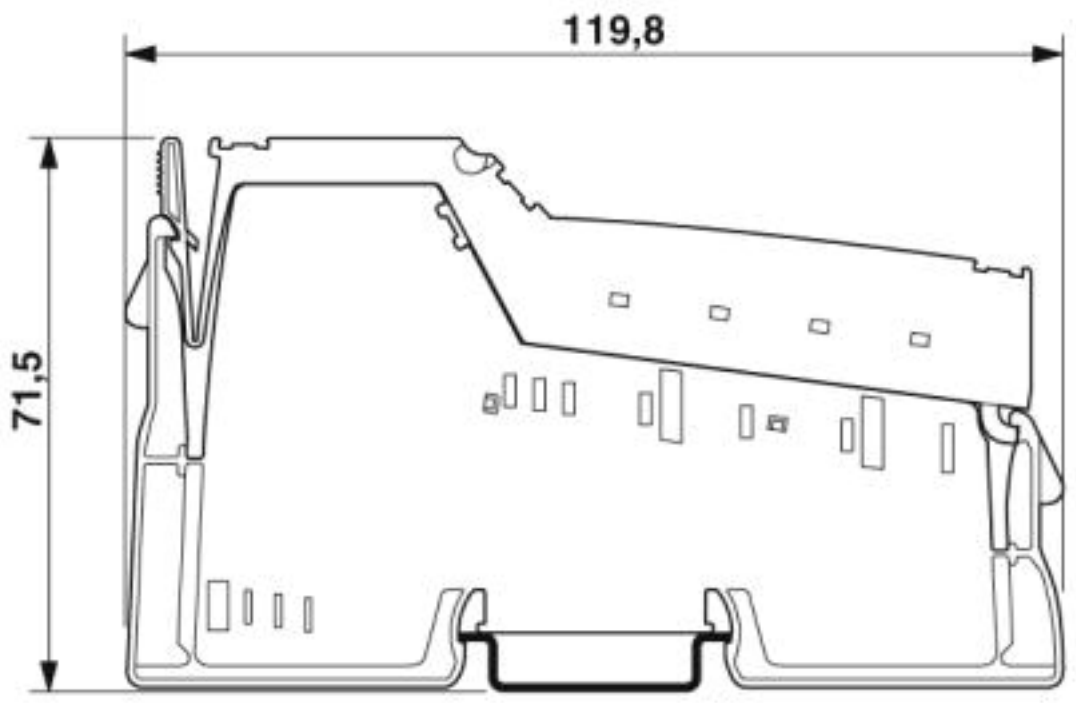
Dimensional drawing



Classifications

eCl@ss

eCl@ss 5.1	27242604
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

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Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cULus Listed			

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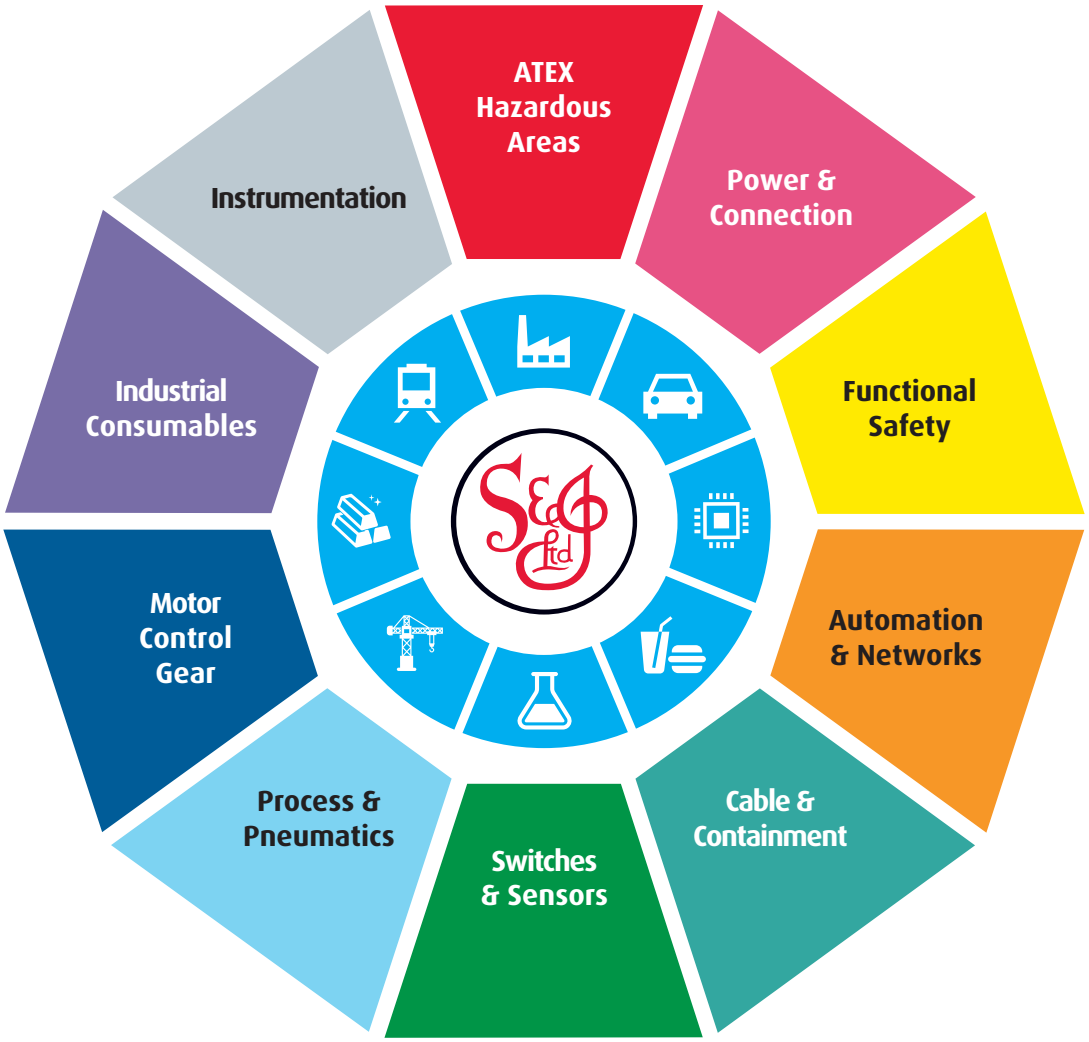

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