

## Inline function terminal - IB IL RS 232-ECO - 2702795

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, communication terminal, serial data transmission, 1 serial input and output channel in RS-232 format, 500 kbps transmission speed in the local bus, IP20 protection, including Inline connector

### Product Description

The terminal is designed for use within an Inline station.


The terminal is used to operate standard I/O devices with serial interfaces on a bus system.

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

- One serial RS-232 input and output channel
- Data is transmitted in transparent mode
- Transmission speeds can be set up to 38400 Baud
- Number of data bits, stop bits and parity can be set
- RTS and CTS handshake signals available
- Parameterization via process data
- Diagnostic and status indicators

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 351629
GTIN	4055626351629
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

Note

## Inline function terminal - IB IL RS 232-ECO - 2702795

### 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

#### Connection data

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

#### General

Mounting type	DIN rail
Net weight	82.93 g
Note on weight specifications	with connector

#### Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Interface	RS-232
Connection method	Spring-cage connection
Transmission physics	Copper

## Inline function terminal - IB IL RS 232-ECO - 2702795

### Technical data

#### Interfaces

Data bits	6 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

#### Inline potentials

Designation	Communications power ( $U_L$ )
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 70 mA
	max. 90 mA
Power consumption	max. 675 mW (at $U_L$ )
	typ. 525 mW (at $U_L$ )

#### Serial input/output channel

Parity	Even, odd or no parity
Transmission type	Transparent mode

#### Electrical isolation

Test section	Serial interface/7.5 V supply (bus logic) 500 V AC 50 Hz 1 min.
	Serial interface/24 V supply $U_M$ 500 V AC 50 Hz 1 min.
	Serial interface/functional earth ground 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 ( $U_M$ )/functional earth ground 500 V AC 50 Hz 1 min.

#### Standards and Regulations

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

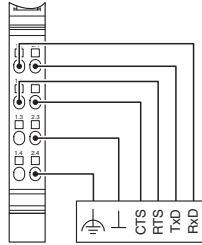
#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

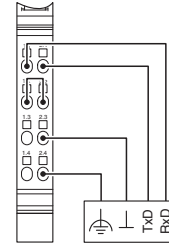
# Inline function terminal - IB IL RS 232-ECO - 2702795

Connection diagram



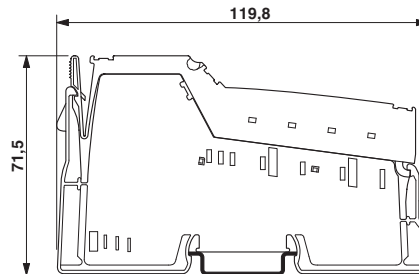
RS-232 interface wiring: four-wire handshake

Connection diagram



RS-232 interface wiring: without handshake

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 5.1	27242604
eCl@ss 8.0	27242605
eCl@ss 9.0	27242605

### ETIM

ETIM 5.0	EC001601
ETIM 6.0	EC001601

### UNSPSC

UNSPSC 13.2	32151602
-------------	----------

## Approvals

### Approvals

# Inline function terminal - IB IL RS 232-ECO - 2702795

## Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

---

Ex Approvals

---

## Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
cULus Listed			

## Accessories

Accessories

Installation terminal block

Connection terminal block - AKG 4 GNYE - 0421029



Connection terminal block, connection method: Screw connection, load current: 41 A, cross section: 0.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, width: 7 mm, color: green-yellow

---

Connection terminal block - AKG 4 BK - 0421032



Connection terminal block, connection method: Screw connection, load current: 41 A, cross section: 0.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, width: 7 mm, color: black

---

## Inline function terminal - IB IL RS 232-ECO - 2702795

### Accessories

#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



---

#### Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174



Neutral busbar, width: 10 mm, height: 3 mm, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, length: 1000 mm, color: silver

---

#### Pick-off terminal block

Connection terminal block - AK 4 - 0404017



Connection terminal block, connection method: Screw connection, load current: 41 A, cross section: 0.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, width: 7 mm, color: silver

---

#### Plug

Inline connector - IB IL SCN-8 - 2726337

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



## Inline function terminal - IB IL RS 232-ECO - 2702795

### Accessories

Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

---

### Shield connection clamp

Shield connection terminal block - SK 8 - 3025163



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

---

Shield connection terminal block - SK 14 - 3025176



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

---

Shield connection terminal block - SK 20 - 3025189



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

---

Shield connection terminal block - SK 35 - 3026463



Shield connection clamp, for shield on busbars, contact resistance < 1 mΩ

---

## Inline function terminal - IB IL RS 232-ECO - 2702795

### Accessories

#### Support

Support bracket - AB-SK - 3025341

Support bracket for busbars



---

Support bracket - AB-SK 65 - 3026489

Support bracket, Bracket for busbars, set every 20 cm, length: 95.5 mm, width: 6.2 mm, number of positions: 1, color: gray



---

Support bracket - AB-SK/E - 3026476

Support bracket, Bracket for busbars, set every 20 cm, length: 10 mm, width: 56 mm, height: 20 mm, number of positions: 2, color: silver



---

#### 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 size: 62 x 10 mm

