

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

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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.

### Your advantages

- One serial RS-232 input and output channel
- Data is transmitted in transparent mode
- Transmission speed can be set up to 38,400 bps
- 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 pc
GTIN	
GTIN	4055626351629

### Technical data

#### Note

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

Width	12.2 mm
Height	119.8 mm

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## Technical data

### Dimensions

Depth	71.5 mm
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### 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
Color	green
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
Data bits	6 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

### Inline potentials

Designation	Communications power (U <sub>L</sub> )
Supply voltage	7.5 V DC (via voltage jumper)

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### Technical data

#### Inline potentials

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

#### Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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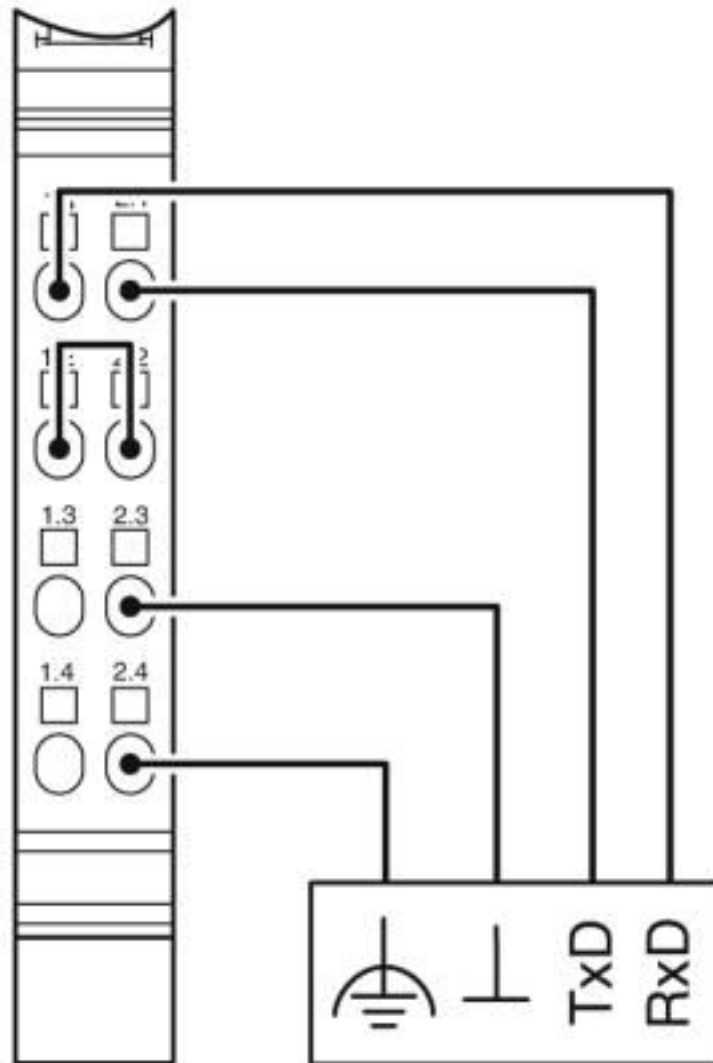
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

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

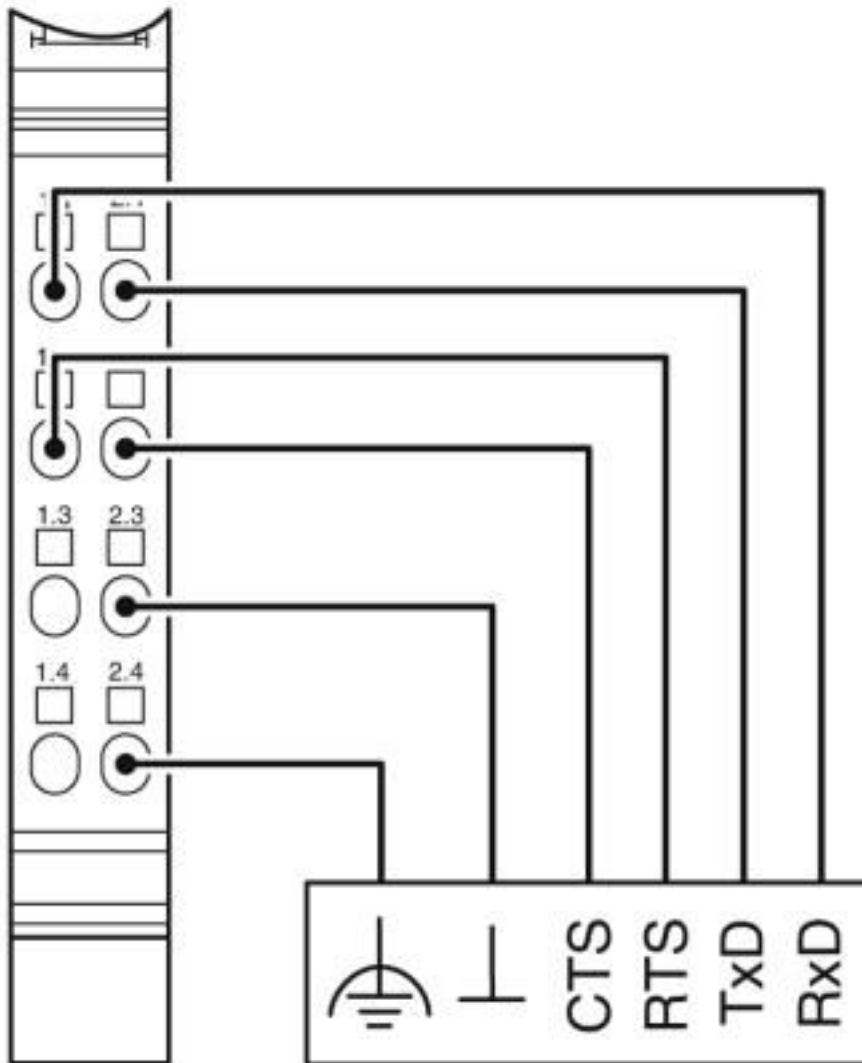
Connection diagram



RS-232 interface wiring: without handshake

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

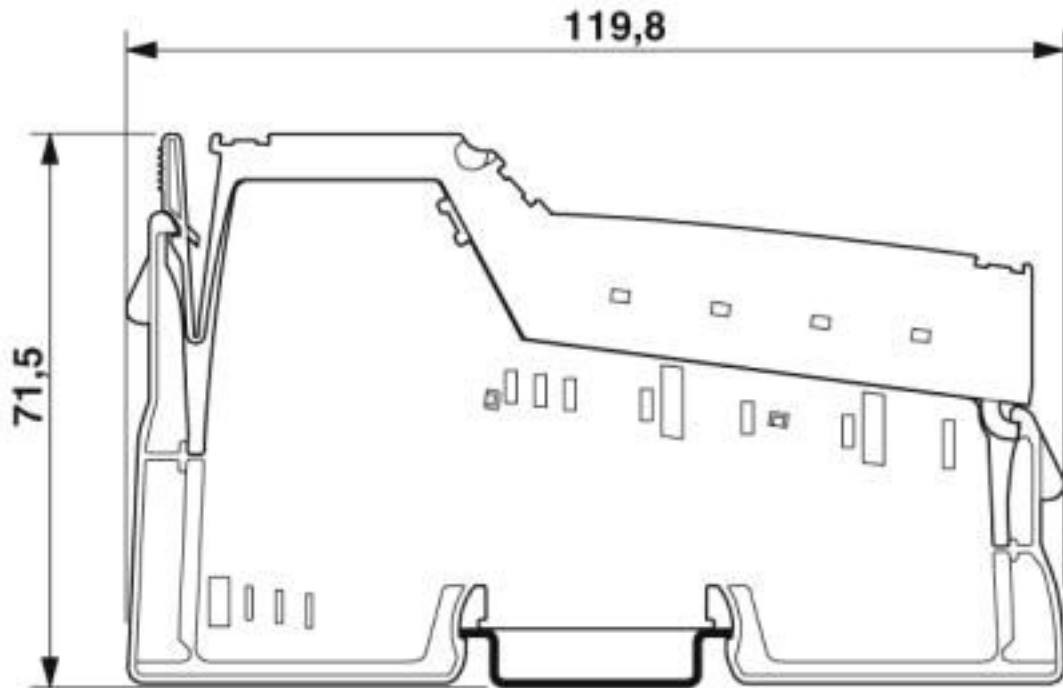
Connection diagram



RS-232 interface wiring: four-wire handshake

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Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 10.0.1	27242605
eCl@ss 5.1	27242604
eCl@ss 6.0	27242600
eCl@ss 7.0	27242605
eCl@ss 8.0	27242605
eCl@ss 9.0	27242605

### ETIM

ETIM 5.0	EC001601
ETIM 6.0	EC001601
ETIM 7.0	EC001601

### UNSPSC

UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

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## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

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### 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
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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
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cULus Listed			
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## 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

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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

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### Labeling panel

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

### Accessories

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

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### 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

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### Plug

Inline connector - IB IL SCN-8 - 2726337

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



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

Inline shield connector



### Shield connection clamp



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### Accessories

Shield connection clamp - SK 8 - 3025163



Shield connection clamp, for shield on busbars, contact resistance <math>< 1 \text{ m}\Omega</math>

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Shield connection clamp - SK 14 - 3025176



Shield connection clamp, for shield on busbars, contact resistance <math>< 1 \text{ m}\Omega</math>

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Shield connection clamp - SK 20 - 3025189



Shield connection clamp, for shield on busbars, contact resistance <math>< 1 \text{ m}\Omega</math>

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Shield connection clamp - SK 35 - 3026463



Shield connection clamp, for shield on busbars, contact resistance <math>< 1 \text{ m}\Omega</math>

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### Support

Support bracket - AB-SK - 3025341



Support bracket for busbars

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

### Accessories

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, Number of individual labels: 72

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