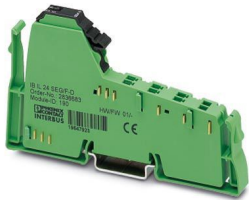


IB IL 24 SEG/F-D - Inline function terminal

2836683

<https://www.phoenixcontact.com/us/products/2836683>

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Inline segment terminal, without accessories, 24 V DC, with fuse and diagnostics

Commercial data

Item number	2836683
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI122
GTIN	4017918160494
Weight per piece (including packing)	65.6 g
Weight per piece (excluding packing)	51.29 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
Number of plugs	1

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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System properties

Local diagnostics

Error messages via the bus	I/O error message with no segment voltage U_s
	I/O error message when fuse triggered or missing

Programming data

Length code (hex)	C2
ID code (dec.)	190
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	2 bit

Fieldbus data telegram

Required parameter data	1 Byte
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Electrical properties

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 ground 500 V AC 50 Hz 1 min
Protective circuit	Overload protection; Fuse
Fuse	SI 5 x 20 6, 300 AT (in scope of delivery)

Supply

I/O voltage	24 V DC
I/O voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 1.2 V
Max. current consumption	4 A
Typical current consumption	30 mA

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
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Current draw	max. 25 mA DC
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Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 4 A (nominal value)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 4 A (sum of $U_M + U_S$)

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Interfaces

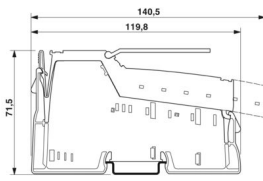
Inline local bus

Connection method	Inline data jumper
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Supply voltage

Connection method	Inline potential distributor
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Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C

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Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (Slight temporary condensation may sometimes appear on the housing, e.g. when the terminal block is brought out of a vehicle into an enclosed room.)

Mounting

Mounting type	DIN rail mounting
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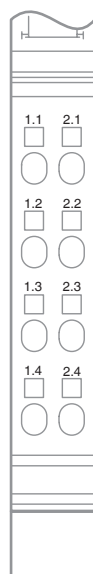
<https://www.phoenixcontact.com/us/products/2836683>

Drawings

Dimensional drawing



Connection diagram



U_M and U_S connected internally via fuse

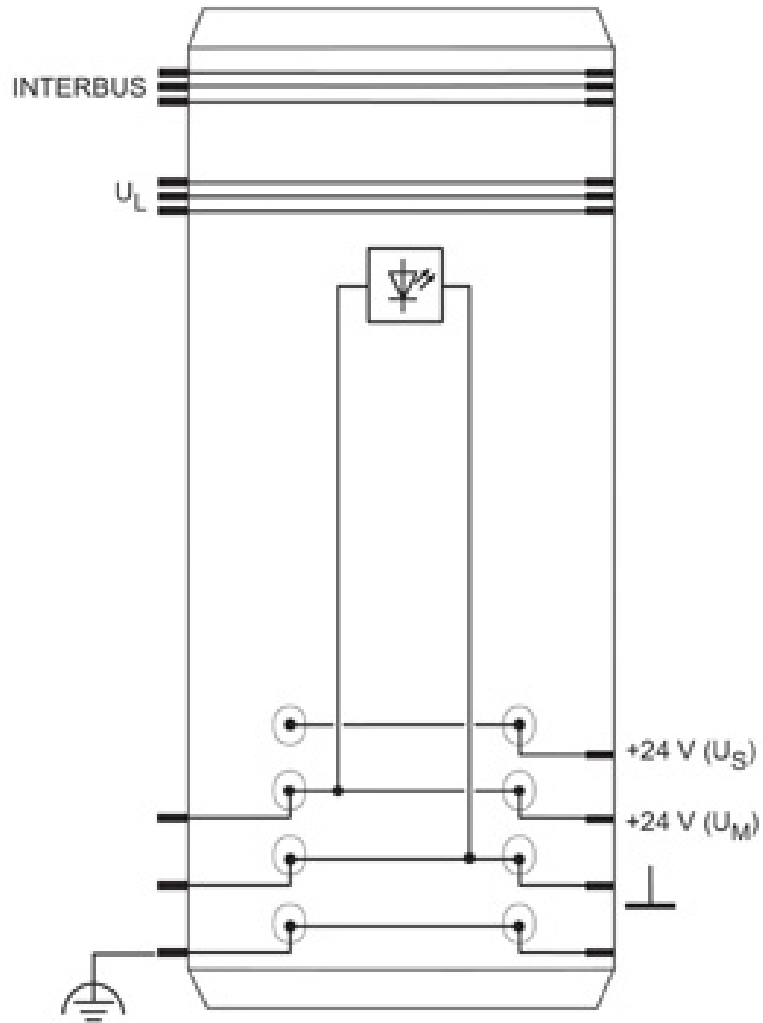
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Block diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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