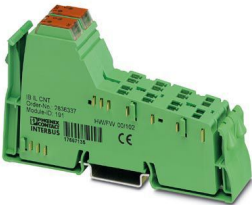


IB IL CNT - Inline function terminal

2836337

<https://www.phoenixcontact.com/us/products/2836337>

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 documentation. Our general terms of use for downloads are valid.



Inline counter terminal, without accessories, 1 counter input, 1 control input, 1 output, 24 V DC, 500 mA, 3-conductor connection technology

Product description

The terminal is designed for use within an Inline station. The counter terminal acquires and processes fast pulse sequences from sensors. It has a counter input (source), a control input (gate), and a switching output that can be freely parameterized. The switching output is set independently of the terminal. Fast response times can therefore be achieved, which are independent of both the bus and controller. The terminal can be operated in four different operating modes: frequency measurement, event counting, time measurement, and pulse generation (pulse generator).

Commercial data

Item number	2836337
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI163
GTIN	4017918160838
Weight per piece (including packing)	154 g
Weight per piece (excluding packing)	116.61 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
	Inline
Operating mode	Process data operation with 2 words
Diagnostics messages	Sensor supply short-circuit
	Sensor supply overload

System properties

Programming data (LocalbusSlave)

Length code (hex)	02
ID code (dec.)	191
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	4 Byte

Fieldbus data telegram

Required parameter data	1 Byte
Required configuration data	5 Byte

Electrical properties

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 50 mA
	typ. 40 mA
Power consumption	max. 0.375 W (at U_L)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (via voltage jumper)
Current draw	max. 1 A

Supply:

Designation	Power supply for sensors
Supply voltage	24 V DC (generated from segment supply U_S)

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min

IB IL CNT - Inline function terminal



2836337

<https://www.phoenixcontact.com/us/products/2836337>

Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min
---	------------------------

Input data

Counter:

Input name	Counter input for 24 V signals
Connection method	Spring-cage connection
Connection technology	2-, 3-conductor
Number of inputs	1 (only one counter input can be used, either for 24 V or for 5 V signals)
Operating mode	Event counting, frequency/time measurement
Input voltage	24 V DC (Nominal voltage) 30 V DC (maximum)
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Input frequency	max. 100 kHz
Input current	typ. 5 mA
Input resistance	approx. 5.7 kΩ

Counter:

Input name	Counter input for 5 V signals
Connection method	Spring-cage connection
Connection technology	2-conductor (shielded), external 5 V supply
Number of inputs	1 (only one counter input can be used, either for 24 V or for 5 V signals)
Operating mode	Event counting, frequency/time measurement
Input voltage	5 V DC (Nominal voltage) 8 V DC (maximum)
Input voltage range "0" signal	0 V ... 1.5 V
Input voltage range "1" signal	3.5 V ... 8 V
Input frequency	max. 100 kHz
Input current	typ. 5 mA
Input resistance	approx. 1.7 kΩ

Output data

Digital:

Output name	Switching output
Connection method	Spring-cage connection
Connection technology	2-conductor
Number of outputs	1
Protective circuit	Short-circuit protection; Yes, short-circuit-proof (automatically switched on again) Overload protection
Output voltage	24 V DC (Nominal voltage)
Output current	max. 0.5 A (Nominal current)

IB IL CNT - Inline function terminal



2836337

<https://www.phoenixcontact.com/us/products/2836337>

Nominal load, inductive	max. 12 VA (1.2 H, 48 Ω)
Nominal load, lamp	max. 12 W
Nominal load, ohmic	max. 12 W (48 Ω)
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior in the event of ohmic overload	Auto restart after eliminating the overload
Behavior with inductive overload	Output can be destroyed
Behavior in the event of lamp overload	Auto restart after eliminating the overload
Overcurrent shut-down	min. 0.7 A

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
Stripping length	8 mm

Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

Signaling

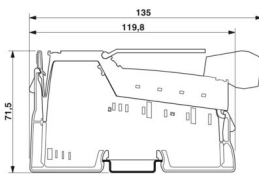
Diagnostic messages

Diagnostics	Sensor supply short-circuit
-------------	-----------------------------

Diagnostic messages

Diagnostics	Sensor supply overload
-------------	------------------------

Dimensions

Dimensional drawing	
Width	24.4 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
-------	-------

IB IL CNT - Inline function terminal



2836337

<https://www.phoenixcontact.com/us/products/2836337>

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

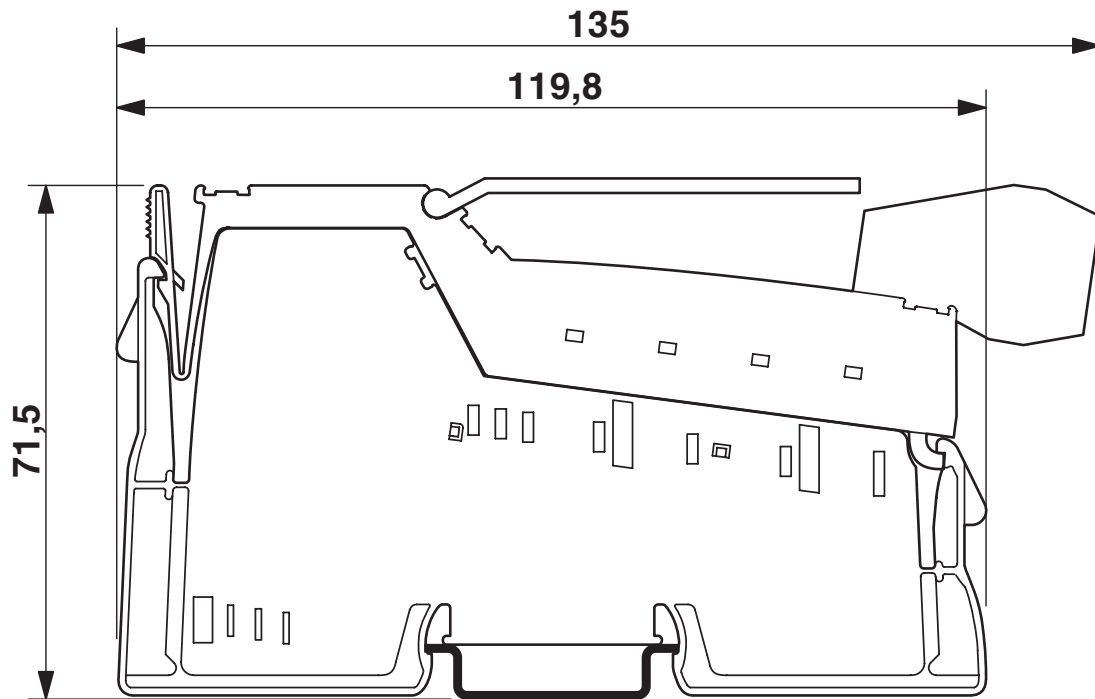
IB IL CNT - Inline function terminal

2836337

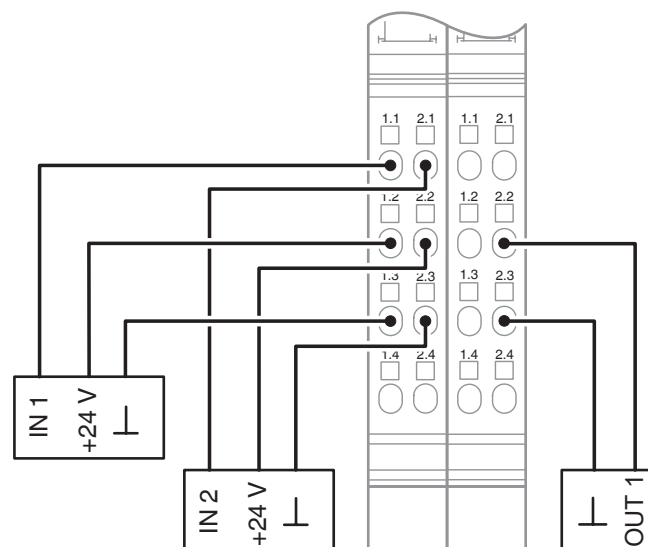
<https://www.phoenixcontact.com/us/products/2836337>

Drawings

Dimensional drawing



Connection diagram

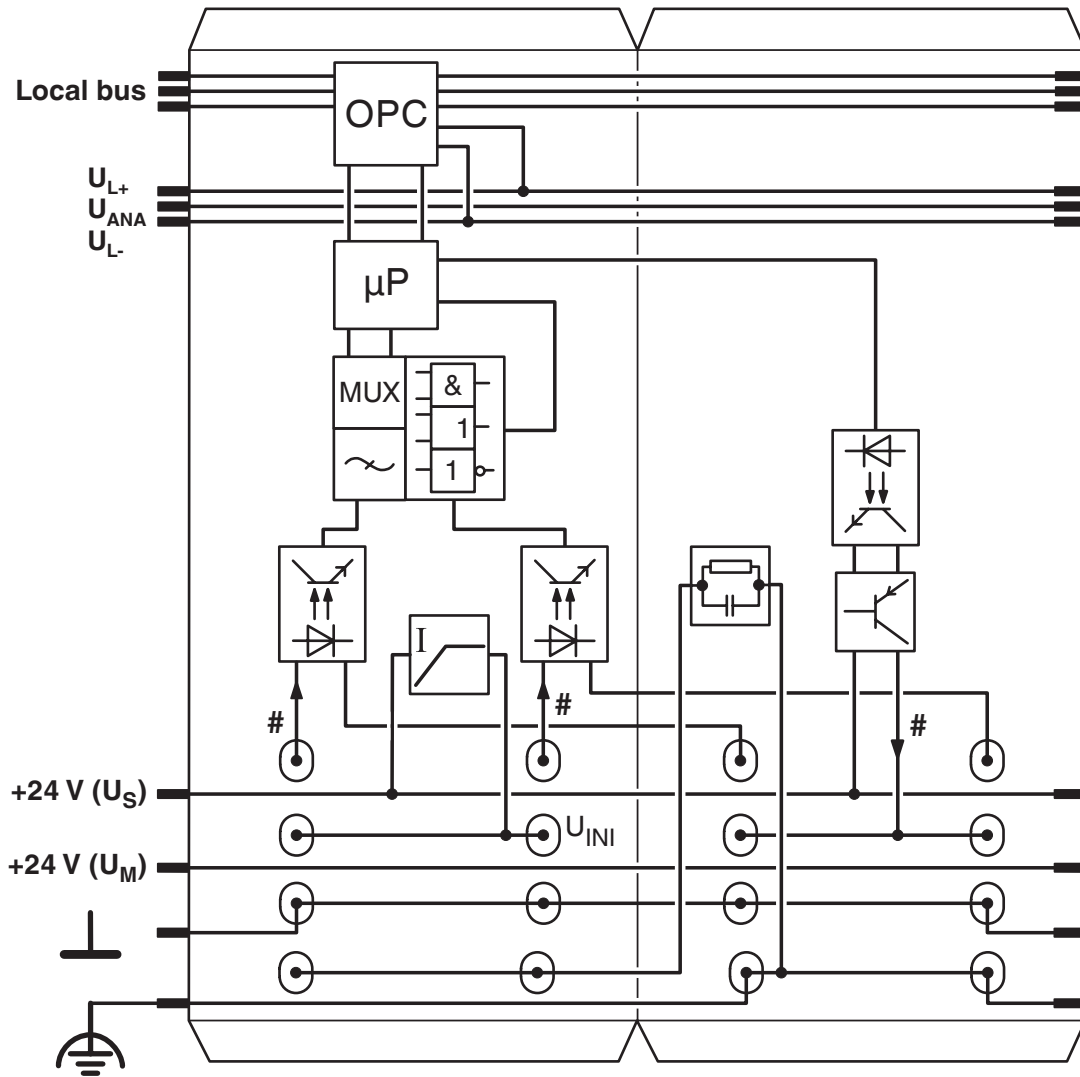


IB IL CNT - Inline function terminal

2836337

<https://www.phoenixcontact.com/us/products/2836337>

Block diagram



IB IL CNT - Inline function terminal



2836337

<https://www.phoenixcontact.com/us/products/2836337>

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

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

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com