

# IB IL IMPULSE-IN - Inline function terminal



2819231

<https://www.phoenixcontact.com/us/products/2819231>

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Inline measurement terminal for position encoder, without accessories, 1 input for inductive length measuring scales with the impulse interface (P interface)



## Commercial data

Item number	2819231
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI161
GTIN	4017918934088
Weight per piece (including packing)	66.2 g
Weight per piece (excluding packing)	65.8 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	modular
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### System properties

#### Programming data

Length code (hex)	02
ID code (dec.)	95
Length code (dec)	133
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	32 bit

#### Fieldbus data telegram

Required parameter data	6 Byte
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### Electrical properties

#### Supply

Drawing encoder supply voltage	Main circuit $U_M$
Encoder supply voltage	24 V
Encoder supply current	max. 250 mA

#### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V (via voltage jumper)
Current draw	max. 70 mA

#### Potentials: Main circuit supply ( $U_M$ )

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	typ. 150 mA (with connected sensor)

### Input data

#### Absolute encoder

Number of inputs	1
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#### Encoder

Signal voltage level	Differential signal (signal-inverted signal) minimum $\pm$
Common mode voltage range signal - ground	-10 V ... 13.2 V
Length measuring range	> 0 mm ... 3850 mm (Resolution: 5 $\mu$ m)
Ultra-sound speed (gradient)	2500 m/s ... 2999.99 m/s (Firmware 1.22 and higher) 2750 m/s ... 2898 m/s (Firmware 1.21 and higher)

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## Connection data

### Inline connector

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

## Interfaces

### Inline local bus

Connection method	Inline data jumper
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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
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 %
Permissible humidity (storage/transport)	75 % ... 85 %

## Mounting

Mounting type	DIN rail mounting
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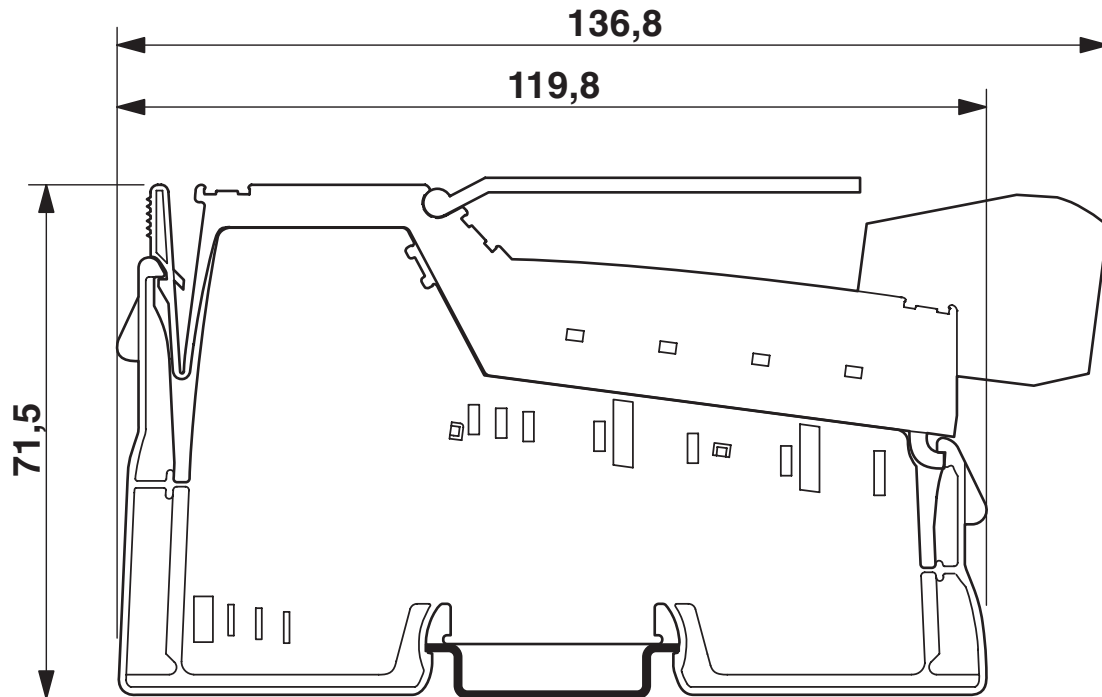
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## Drawings

Dimensional drawing

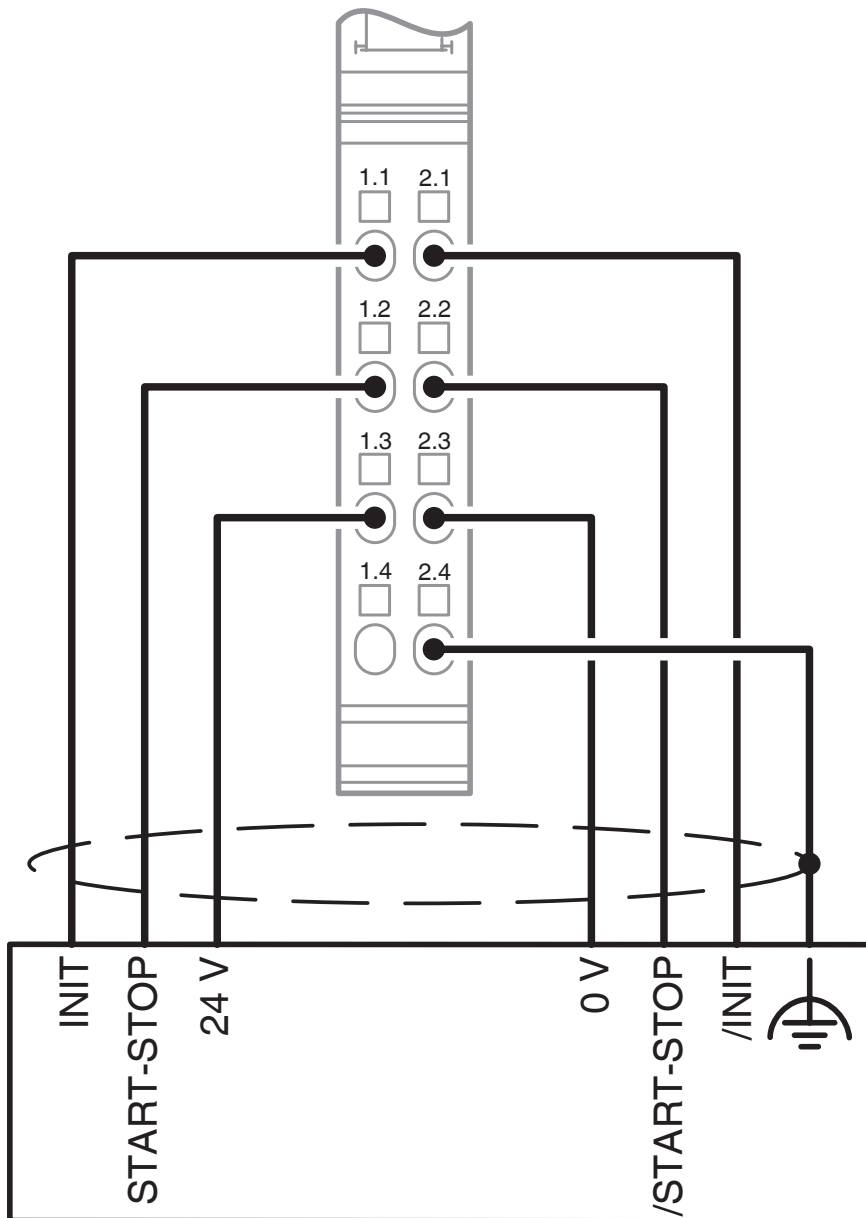


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Connection diagram



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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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