

2861768

https://www.phoenixcontact.com/us/products/2861768

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Inline measurement terminal block for position encoder, complete with accessories (connector and labeling field), 1 input for inductive length measuring scales with the impulse interface (P interface)

Product description

The terminal is designed for use within an Inline station. The terminal block is used to evaluate magnetostrictive position sensors with a start/stop interface. The time between a query pulse and its response pulse is directly proportional to the position of the position encoder on the measuring path. Impulses are transmitted with immunity to interference via a differential driver according to RS-422.

Your advantages

- Ultrasonic speed of the encoder of 2,500 m/s ... 2,999.99 m/s
- Position resolution of 5 μm
- · Evaluation of the position of a magnet
- 1 magnetostrictive encoder can be connected
- Measuring range length of up to 3.85 m
- 24 V encoder supply incl. monitoring
- · Shield connection

Commercial data

Item number	2861768
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI161
GTIN	4017918934095
Weight per piece (including packing)	89.8 g
Weight per piece (excluding packing)	71 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	135 119,0 all 00 0 0 0 0
Width	12.2 mm
Height	135 mm
Depth	71.5 mm

Notes

Note on application

Note on application Only for industrial use

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module

ID code (dec.)	95
ID code (hex)	5F
Length code (hex)	02
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Register length	32 bit
Required parameter data	6 Byte
Required configuration data	5 Byte

Product properties

Product type	I/O component
Product family	Inline
Туре	modular
Operating mode	Process data operation with 2 words
Diagnostics messages	Failure or overload of the encoder supply I/O error message



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Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ctrical properties	
Maximum power dissipation for nominal condition	0.85 W
ncoder	
Number	1
Nominal output voltage	24 V DC
Voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
Current carrying capacity	max. 250 mA
Protective circuit	Short-circuit protection; Electronic and thermal
otentials: Communications power (U _L)	
Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 70 mA
otentials: 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	max. 250 mA
	typ. 150 mA (with connected sensor)
lectrical isolation/isolation of the voltage ranges	
Test voltage: 7.5 V supply (bus logics) / I/O area	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logic)/functional ground	500 V AC, 50 Hz, 1 min
	500 V AC, 50 Hz, 1 min

С

Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm² 1.5 mm²
Conductor cross-section flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
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Conductor cross-section, flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
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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 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
1 TOLCOLOTT CIASS	III (ILO 01 140, LIN 01 140, VDL 0140-1)

Mounting

Mounting type	DIN rail mounting
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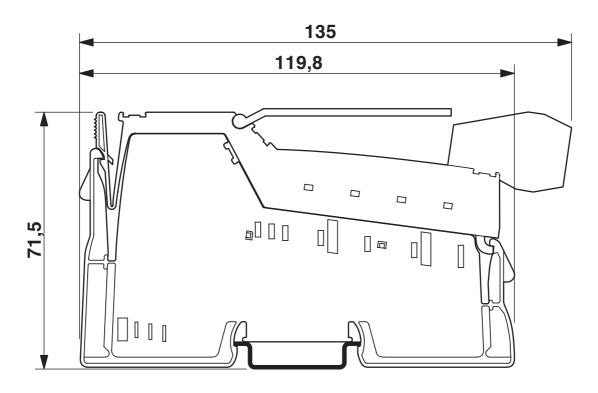


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Drawings

Dimensional drawing

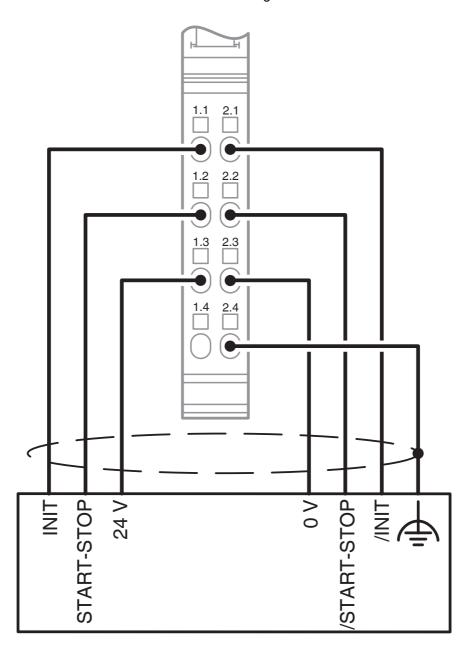




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Connection diagram





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Classifications

ECLASS

	ECLASS-13.0	27242605		
	ECLASS-15.0	27242605		
ETIM				
	ETIM 9.0	EC001601		
UNSPSC				
	UNSPSC 21.0	32151600		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	99bc4c10-2759-49f4-93d2-add6c9f4edd8

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