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Especialistas en Automatización

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Inline terminal - IB IL SGI 2/P-PAC - 2884907

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Inline analog strain gauge input terminal, complete with accessories (connector and labeling field), two precise inputs, 4, 6-conductor connection method

Why buy this product

- 2 high-precision inputs for strain gauge
- Typical deviation of the measuring range final value of $\pm 0.01\%$
- Serial interface for external weight displays
- Zero point, tare, and standstill display
- Optional: 4, 16, and 32-sample mean-value generation

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 296878

Technical data

Note

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

Width	48.8 mm
Height	136 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °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

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Technical data

General

Net weight	220 g
Mounting type	DIN rail
Operating mode	Process data operation with 3 words, PCP with 1 word
Diagnostics messages	Failure of the power supply at U_{ANA} Error message in the process data
	Failure of or insufficient communications power U_L I/O error message sent to the bus coupler
	Peripheral fault Error message in the process data

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

Serial interface

Designation	V.24 (RS-485) serial interface
Network	Yes
Addressing	Address 1 = Measured gross/net value
	Address 2 = Measured tare value
Termination resistor	120 Ω
Transmission protocol	STX/ETX

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 100 mA
	typ. 85 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	max. 100 mA
	25 mA (in case of typical load of 350 Ohm per channel)
	7 mA (for no-load operation without strain gauge or display)
	80 mA (For a maximum load of 55 Ω and display)
Power consumption	typ. 1.2 W (Device in nominal operation)
	max. 3.2 W (Device with maximum load)

Contacts

Description	Floating N/O contact
Quantity	2 (K_{a1} - K_{b1} , K_{a2} - K_{b2})
Contact resistance	< 1 Ω (typical)
Typical response time	typ. 100 ms

Analog inputs

Description of the input	Input channels for strain gauge
Number of inputs	2

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Analog inputs

Connection method	6 or 4-wire, twisted pair shielded cable
Bridge difference U_d	Measuring range specified by selecting the characteristic
Bridge voltage U_0	5 V
Characteristics	± 1 mV/V, ± 2 mV/V, ± 3 mV/V, ± 3.33 mV/V, ± 4 mV/V, ± 5 mV/V
Measured value representation	15 bits + sign bit (process data); 15 bits + sign bit and measured display value in the ASCII character set (PCP)
Process data update	typ. 100 ms (12.5 ms, depends on the configuration)

Analog outputs

Type of protection	Short-circuit protection of the voltage outputs
Protective circuit/component	Yes, at least 1 minute through temperature monitoring
Output description	Voltage output
Number of outputs	2
Impedance	> 55 Ω (per channel)
Output voltage	typ. 5 V
Output current	max. 90 mA (per channel)
Maximum output current	max. 90 mA (per channel)

Standards and Regulations

Test section	Logic/analog I/O (digital isolator) 500 V AC 50 Hz 1 min.
	RS-485/analog I/O (isolating distance) 500 V AC 50 Hz 1 min.
	N/O contact K_{a1} - K_{b1} / analog I/O (isolating distance) 500 V AC 50 Hz 1 min.
	N/O contact K_{a2} - K_{b2} / analog I/O (isolating distance) 500 V AC 50 Hz 1 min.
	Functional earth ground/analog I/O (isolating distance) 500 V AC 50 Hz 1 min.
	Logic/RS-485 (digital isolator) 500 V AC 50 Hz 1 min.
	N/O contact K_{a1} - K_{b1} / RS-485 (isolating distance) 500 V AC 50 Hz 1 min.
	N/O contact K_{a2} - K_{b2} / RS-485 (isolating distance) 500 V AC 50 Hz 1 min.
	Functional earth ground/RS-485 (isolating distance) 500 V AC 50 Hz 1 min.
	Logic / N/O contact K_{a1} - K_{b1} (optocoupler) 500 V AC 50 Hz 1 min.
	N/O contact K_{a2} - K_{b2} /N/O contact K_{a1} - K_{b1} (isolating distance) 500 V AC 50 Hz 1 min.
	Functional earth ground / N/O contact K_{a1} - K_{b1} (isolating distance) 500 V AC 50 Hz 1 min.
	Logic / N/O contact K_{a2} - K_{b2} (optocoupler) 500 V AC 50 Hz 1 min.
	Functional earth ground / N/O contact K_{a2} - K_{b2} (isolating distance) 500 V AC 50 Hz 1 min.
	Logic/functional earth ground (isolating distance) 500 V AC 50 Hz 1 min.
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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Classifications

eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

ATEX

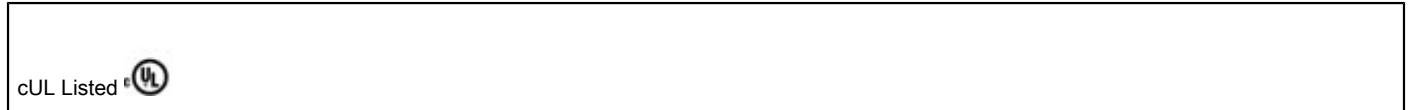
Approvals submitted

Approval details

UL Listed

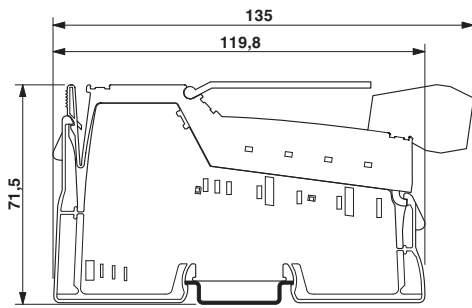
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Approvals

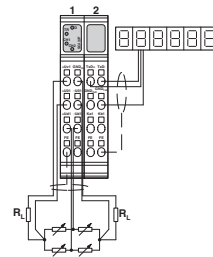


Drawings

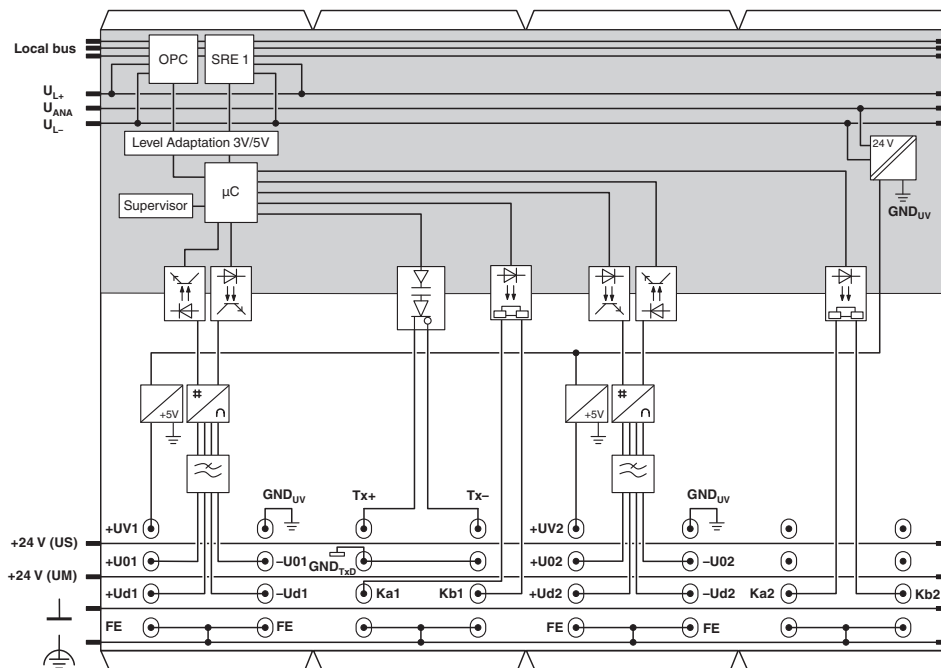
Dimensional drawing



Connection diagram



Block diagram



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Product	Code	Reference	Product link
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