

Inline function terminal - IB IL SGI 2/F-2MBD-PAC - 2878735

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Inline analog strain gauge input terminal, complete with accessories (plug and labeling field), transmission speed 2 Mbaud, 2 quick inputs, 4, 6-conductor connection method




Why buy this product

- 2 fast inputs for strain gauge
- Optional: 16-sample mean-value generation
- Typical deviation of the measuring range final value of $\pm 0.1\%$ (unipolar) or $\pm 0.2\%$ (bipolar)
- Bus-synchronous process data update with 1 ms (depending on the local bus cycle time)
- Diagnostic and status indicators



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 996437
Weight per Piece (excluding packing)	203.97 g
Custom tariff number	85389091
Country of origin	Germany

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)

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Technical data

Ambient conditions

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

Weight	190 g
Mounting type	DIN rail
Operating mode	Process data operation with 3 words, PCP with 1 word
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Logic/analog I/O (digital isolator) 500 V AC 50 Hz 1 min
	Functional earth ground/analog I/O (isolating distance) 500 V AC 50 Hz 1 min
	Logic/functional earth ground (isolating distance) 500 V AC 50 Hz 1 min

Interfaces

Name	Inline local bus
Connection method	Inline data jumper
Transmission speed	2 MBit/s
Transmission physics	Copper

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 110 mA
	typ. 100 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 32 mA (With minimum load 60 Ω)
	typ. 8 mA (Without strain gauge)
Power consumption	typ. 0.94 W

Analog inputs

Description of the input	Input channels for strain gauge
Number of inputs	2
Connection method	6 or 4-wire, twisted pair shielded cable
Bridge difference U_d	Measuring range specified by selecting the characteristic and the bridge voltage
Bridge voltage U_0	3.3 V
Characteristics	+1 mV/V, +2 mV/V, +3 mV/V, +4 mV/V
	± 1 mV/V, ± 2 mV/V, ± 3 mV/V, ± 4 mV/V
Measured value representation	15 bit + sign bit

Analog outputs

Output description	Voltage output
Number of outputs	2

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Analog outputs

Impedance	> 59 Ω (typical)
Output voltage	typ. 5 V
	3.3 V
Output current	typ. 55 mA (With $U_v = 3.3$ V)
	typ. 85 mA (With $U_v = 5$ V)

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 Recognized / cUL Recognized / cULus Recognized

Ex Approvals


UL Listed / cUL Listed / cULus Listed


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Approvals

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 

Accessories

Accessories

Device parameterization

Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

Software - AX DTM LIB - 2988065



DTM library

Installation terminal block

Connection terminal block - AKG 4 GNYE - 0421029



Connection terminal block, Connection method Screw connection, Load current : 41 A, Cross section: 0.5 mm² - 6 mm², Width: 7 mm, Color: green-yellow

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Accessories

Connection terminal block - AKG 4 BK - 0421032



Connection terminal block, Connection method Screw connection, Load current : 41 A, Cross section: 0.5 mm² - 6 mm², Width: 7 mm, Color: black

Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174



PEN conductor busbar, 3mm x 10 mm, length: 1000 mm

Pick-off terminal block

Connection terminal block - AK 4 - 0404017



Connection terminal block, Connection method Screw connection, Load current : 41 A, Cross section: 0.5 mm² - 6 mm², Width: 7 mm, Color: silver

Plug

Inline shield connector - IB IL SCN-6 SHIELD - 2726353



Inline shield connector

Inline plug - IB IL SCN-8 - 2726337



Connector, for digital 1, 2 or 8-channel Inline terminals

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Accessories

Shield connection clamp

Shield connection terminal block - SK 8 - 3025163



Shield connection clamp, for shield on busbars, contact resistance < 1 mOhm

Shield connection terminal block - SK 14 - 3025176



Shield connection clamp, for shield on busbars, contact resistance < 1 mOhm

Shield connection terminal block - SK 20 - 3025189



Shield connection clamp, for shield on busbars, contact resistance < 1 mOhm

Shield connection terminal block - SK 35 - 3026463



Shield connection clamp, for shield on busbars, contact resistance < 1 mOhm

Support

Support bracket - AB-SK - 3025341



Support bracket for busbars

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Accessories

Support bracket - AB-SK 65 - 3026489

Support bracket, Bracket for busbars, set every 20 cm, Length: 95.5 mm, Width: 6.2 mm, Color: gray



Support bracket - AB-SK/E - 3026476

Support bracket, Bracket for busbars, set every 20 cm, Length: 10 mm, Width: 56 mm, Height: 20 mm, Color: silver



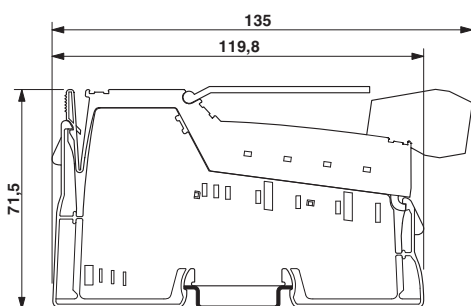
Controller - S-MAX 406 CE PN - 2700599



Powerful combination of PC platform, PLC and visualization with INTERBUS field bus master, 6.4" display, Windows CE.NET and PROFINET-IO controller

Drawings

Dimensioned drawing



Connection diagram

