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Inline, Analog input terminal, Analog inputs: , 0 mA ... 20 mA, 4 mA ... 20 mA, connection method: 2-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Why buy this product

- 4 analog differential input channels for connecting current signals
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- Mean-value generation of the inputs
- Frocess data update of all channels in 250 μs
- ☑ Diagnostic and status indicators



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------------|
| GTIN | 4 046356 566544 |
| GTIN | 4046356566544 |
| Weight per Piece (excluding packing) | 80.000 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 |
|-------------------------|---|
| | |

Dimensions

| Width | 12.2 mm |
|-------|---------|



Technical data

Dimensions

| Height | 119.8 mm |
|--------------------|--------------------|
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

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

| Mounting type | DIN rail |
|-------------------------------|--|
| Net weight | 66 g |
| Note on weight specifications | with connector |
| Diagnostics messages | Failure of the internal I/O supply I/O error message sent to the bus coupler |
| | I/O supply failure Message in the diagnostic code (in the IB IL format) |
| | Overrange or underrange Message in the diagnostic code (in the IB IL format) |
| | Configuration invalid Message in the diagnostic code (in the IB IL format) |

Interfaces

| Designation | Inline local bus |
|----------------------|--------------------|
| No. of channels | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |
| Transmission physics | Copper |

Inline potentials

| Designation | Communications power (U _L) |
|----------------------|--|
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current consumption | typ. 55 mA |
| | max. 60 mA |
| Designation | Supply of analog modules (U _{ANA}) |
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC 30 V DC (including all tolerances, including ripple) |
| Current consumption | typ. 30 mA |
| | max. 35 mA |



Technical data

Inline potentials

| Power consumption | typ. 0.94 W (total) |
|-------------------|---------------------|
| Power consumption | typ. 0.94 W (total) |

Analog inputs

| Description of the input | Differential inputs, current |
|--------------------------------|---|
| Input name | Analog inputs |
| Number of inputs | 4 |
| Connection method | Inline connector |
| Connection technology | 2-wire |
| A/D conversion time | max. 6.5 µs |
| Resolution A/D | 12 bit |
| Limit frequency (3 dB) | 300 Hz |
| Data formats | IB IL, S7-compatible |
| Measured value resolution | 13 bits (12 bits + sign bit) |
| Measured value representation | 13 bits (12 bits + sign bit) |
| Current input signal | 0 mA 20 mA |
| | 4 mA 20 mA |
| Input resistance current input | typ. 113 Ω |
| Filtering | None or mean-value generation over 4, 16, or 32 measured values |

Electrical isolation

| Test section | 5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
|--------------|--|
| | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
| | 7.5 V supply (bus logic), 24 V supply U _{ANA} / I/O 500 V AC 50 Hz 1 min. |
| | 7.5 V supply (bus logic), 24 V supply $\rm U_{ANA}$ /functional earth ground 500 V AC 50 Hz 1 min. |
| | I/O / functional earth ground 500 V AC 50 Hz 1 min. |

Standards and Regulations

| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
|------------------|--------------------------------------|
|------------------|--------------------------------------|

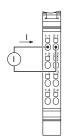
Environmental Product Compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

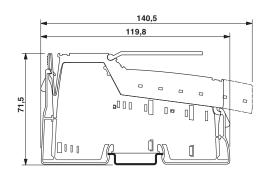
Drawings



Connection diagram



Dimensional drawing



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 |
| eCl@ss 9.0 | 27242601 |

ETIM

| ETIM 3.0 | EC001596 |
|----------|----------|
| ETIM 4.0 | EC001596 |
| ETIM 5.0 | EC001596 |
| ETIM 6.0 | EC001596 |

UNSPSC

| UNSPSC 6.01 | 43172015 |
|---------------|----------|
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |

Approvals

Approvals



Approvals

| т фр. с таке | | | | | |
|---|---------|---|---------------|--|--|
| Approvals | | | | | |
| UL Listed / cUL Listed / EAC / cULus Listed | | | | | |
| Ex Approvals | | | | | |
| Approval details | | | | | |
| UL Listed | UL | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 | | |
| | | | | | |
| cUL Listed | CUL | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 | | |
| | | | | | |
| EAC | EAC | | EAC-Zulassung | | |
| | | | | | |
| cULus Listed | C UL US | | | | |

Accessories

Accessories

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



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



Neutral busbar, width: 10 mm, height: 3 mm, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, length: 1000 mm, color: silver

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

Shield connection clamp

Shield connection terminal block - SK 8 - 3025163



Shield connection clamp, for shield on busbars, contact resistance < 1 $m\Omega$



Accessories

Shield connection terminal block - SK 14 - 3025176



Shield connection clamp, for shield on busbars, contact resistance < 1 $m\Omega$

Shield connection terminal block - SK 20 - 3025189



Shield connection clamp, for shield on busbars, contact resistance < 1 $m\Omega$

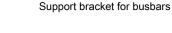
Shield connection terminal block - SK 35 - 3026463



Shield connection clamp, for shield on busbars, contact resistance < 1 $m\Omega$

Support

Support bracket - AB-SK - 3025341





Support bracket - AB-SK 65 - 3026489

Support bracket, Bracket for busbars, set every 20 cm, length: 95.5 mm, width: 6.2 mm, number of positions: 1, color: gray





Accessories

Support bracket - AB-SK/E - 3026476



Support bracket, Bracket for busbars, set every 20 cm, length: 10 mm, width: 56 mm, height: 20 mm, number of positions: 2, color: silver

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