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Axioline Smart Elements, Analog input module, Analog inputs: 4, 0 mA ... 20 mA, connection technology: 2-conductor, degree of protection: IP20

Product Description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element detects analog current signals.

Your advantages

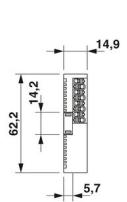
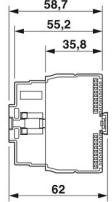
- 4 analog input channels
- Connection of sensors in 2-conductor technology
- Current range: 0 mA ... 20 mA
- Data format: standardized representation
- Resolution: 12 bits
- Device rating plate stored

Commercial Data

| | |
|--------------------------------------|---------------|
| Item number | 1296378 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product Key | DRIB41 |
| GTIN | 4063151534301 |
| Weight per Piece (including packing) | 36.87 g |
| Weight per Piece (excluding packing) | 34.17 g |
| Country of origin | DE |

Technical Data

Dimensions

| Dimensional drawing | |
|---|--|
|  |  |
| Width | 14.9 mm |
| Height | 62.2 mm |
| Depth | 5.7 mm |

Notes

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

Interfaces

| | |
|-----------------------------------|--|
| Smart Element interface | |
| Number of interfaces | 1 |
| Connection method | Card edge connector |
| Transmission speed | See system in which you use the Smart Element. |
| Start time until ready to operate | < 1000 ms |

System properties

| | |
|-----------------------------|---------|
| Module | |
| ID code (hex) | none |
| Process data channel | 64 bit |
| Input address area | 8 Byte |
| Output address area | 8 Byte |
| Required parameter data | 24 Byte |
| Required configuration data | 6 Byte |

Input data

| | |
|--------------------------|------------------------------|
| Analog | |
| Input name | Analog inputs |
| Description of the input | Single-ended inputs, current |
| Number of inputs | 4 |
| A/D converter resolution | 12 bit |
| Connection method | Push-in technology |

AXL SE AI4 I 0-20 - Analog module



1296378

<https://www.phoenixcontact.com/in/products/1296378>

| | |
|--|-----------------------------|
| Connection technology | 2-conductor |
| Note regarding the connection technology | shielded, twisted pair |
| Current input signal | 0 mA ... 20 mA |
| Input resistance current input | max. 60 Ω |
| Data formats | Standardized representation |
| Measured value representation | 16 bits |
| Protective circuit | Transient protection |

Product properties

| | |
|-------------------|--|
| Type | modular |
| Product type | I/O component |
| Product family | Axioline Smart Elements |
| Mounting position | See the system in which the Smart Element is used. |

Insulation characteristics

| | |
|----------------------|------------------------------|
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

Electrical properties

Potentials: Communications power supply of the Smart Elements (U_{SE})

| | |
|----------------|----------------------------|
| Supply voltage | using card edge connectors |
|----------------|----------------------------|

Potentials: I/O supply (U_P)

| | |
|----------------------|--|
| Supply voltage | 24 V DC (using card edge connectors) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 20 mA |
| | typ. 15 mA |
| Current consumption | min. 12 mA (without connected peripherals) |
| Power consumption | max. 480 mW |
| | min. 288 mW |
| Protective circuit | Surge protection; See the system in which the Smart Element is used. |
| | Reverse polarity protection; Polarity protection diode |

Connection data

Connection technology

| | |
|-------------------------------|---|
| Connection name | I/O |
| Note on the connection method | Please observe the information provided on conductor cross sections in the "Axioline Smart Elements" user manual. |

Conductor connection

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Conductor cross section rigid | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 24 ... 16 |