

Safety module - AXL SE SSDI8/3 - 1190012

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Axioline Smart Elements, Digital input module, SafetyBridge technology, Safe digital inputs: 8 (1-channel assignment), 4 (2-channel assignment), 24 V DC, connection technology: 3-conductor, degree of protection: IP20

Product Description


You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element is a safe input module for use in a SafetyBridge system.

Your advantages

- ✓ Up to Cat. 4/PL e according to EN ISO 13849-1, SIL 3 according to EN 62061, SIL 3 according to IEC 61508
- ✓ 8 safe inputs for 1-channel assignment
- ✓ 4 safe inputs for 2-channel assignment



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 063151 237479 |
| GTIN | 4063151237479 |
| Weight per Piece (excluding packing) | 40.000 g |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

Technical data

Dimensions

| Caption | Dimensions |
|---------|------------|
| Width | 14.9 mm |
| Height | 62.2 mm |
| Depth | 62 mm |

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Technical data

Ambient conditions

| | |
|---|-------------------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 70 kPa ... 108 kPa |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa |
| Degree of protection | IP20 |
| Degree of protection at installation location | min. IP54 |

Connection data

| | |
|---------------------------------------|--|
| Designation | I/O |
| Connection method | Push-in connection |
| Note on the connection method | Note the specification in the section Conductor cross sections, and stripping and insertion lengths. |
| Conductor cross section solid min. | 0.25 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.25 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 8 mm |

Interfaces

| | |
|--------------------|--|
| Designation | Smart Element interface |
| Number | 1 |
| Connection method | Card edge connector |
| Transmission speed | See system in which you use the Smart Element. |

Digital inputs

| | |
|-----------------------------------|--|
| Input name | Safe digital inputs |
| Description of the input | EN 61131-2, type 3 |
| Connection method | Push-in connection |
| Connection technology | 3-conductor |
| Number of inputs | 8 (1-channel assignment) 4 (2-channel assignment) |
| Protective circuit | Polarity reversal protection of the inputs Diode |
| Nominal input voltage U_{IN} | 24 V DC |
| Nominal input current at U_{IN} | typ. 2.7 mA |
| Input filter time | 1.5 ms |

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Technical data

Digital inputs

| | |
|--------------------------------|---|
| | 3 ms (Default) |
| | 5 ms |
| | 15 ms |
| Cable length | max. 200 m (200 m from the clock output to the safe input (total based on forward and return path)) |
| Input voltage range "0" signal | -3 V DC ... 5 V DC |
| Input voltage range "1" signal | 11 V DC ... 30 V DC |
| Input current range "0" signal | max. 1.5 mA |
| Input current range "1" signal | min. 2 mA |
| Switching frequency | max. 10 Hz |

Clock outputs

| | |
|-----------------------------|----------------------------------|
| Number of outputs | 2 |
| Nominal voltage U_N | 24 V DC (from U_P) |
| Limiting continuous current | max. 0.5 A DC (per clock output) |
| Short-circuit protection | Yes |

General

| | |
|---------------------|----------------------------|
| Mounting type | Smart Element slot |
| Color | zinc yellow RAL 1018 |
| Net weight | 36 g |
| Operating mode | SafetyBridge |
| Degree of pollution | 2 (EN 60664-1) |
| Mounting position | any |
| Maximum altitude | ≤ 3000 m (Above sea level) |

Axioline potentials

| | |
|----------------------|--|
| Designation | Axioline F local bus supply (U_{Bus}) |
| Supply voltage | 5 V DC (via bus base module) |
| Current consumption | typ. 101 mA (at U_{Bus} 5 V DC) |
| | max. 140 mA (at U_{Bus} 5 V DC) |
| Designation | Communications power supply of the Smart Elements (U_{SE}) |
| Additional text | using card edge connectors |
| Current consumption | max. 144 mA (at U_{SE} 3.3 V DC) |
| Designation | 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 consumption | min. 8 mA (Power supply from U_P with 19.2 V DC, all inputs set, without power supply to the sensors via clock supplies OUT_T1 and OUT_T2) |

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Technical data

Axioline potentials

| | |
|--------------------|---|
| | typ. 9 mA (Power supply from U_p with 24 V DC, all inputs set, without power supply to the sensors via clock supplies OUT_T1 and OUT_T2) |
| | max. 12 mA (Power supply from U_p with 30 V DC, all inputs set, without power supply to the sensors via clock supplies OUT_T1 and OUT_T2) |
| Power consumption | min. 154 mW |
| | typ. 216 mW |
| | max. 360 mW |
| Protective circuit | Surge protection of the supply voltage electronic (35 V, 0.5 s) |
| | Polarity reversal protection of the supply voltage via the system in which the Smart Element is used |
| Protection | external fusing via the system in which the Smart Element is used |

Safety-related characteristic data

| | |
|---|--------------------------|
| Designation | IEC 61508 - High demand |
| Safety Integrity Level (SIL) | 2 (1-channel assignment) |
| | 3 (2-channel assignment) |
| Designation | IEC 61508 - Low demand |
| Safety Integrity Level (SIL) | 2 (1-channel assignment) |
| | 3 (2-channel assignment) |
| Designation | EN ISO 13849-1 |
| Performance level (PL) | d (1-channel assignment) |
| | e (2-channel assignment) |
| Category | 3 (1-channel assignment) |
| | 4 (2-channel assignment) |
| Designation | EN 62061 |
| Safety Integrity Level Claim Limit (SIL CL) | 2 (1-channel assignment) |
| | 3 (2-channel assignment) |

Standards and Regulations

| | |
|------------------------------------|--|
| Immunity to ESD | Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion A, 6 kV contact discharge, 8 kV air discharge |
| Immunity to EF | Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m |
| Immunity to burst | Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion A, 2 kV |
| Immunity to surge | Noise immunity test in accordance with EN 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Test intensity 2, Criterion A Power supply: 0.5 kV/0.5 kV (symmetrical/unsymmetrical) Signal lines: 1.0 kV/2.0 kV (symmetrical/unsymmetrical) |
| Immunity to conducted interference | Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V |

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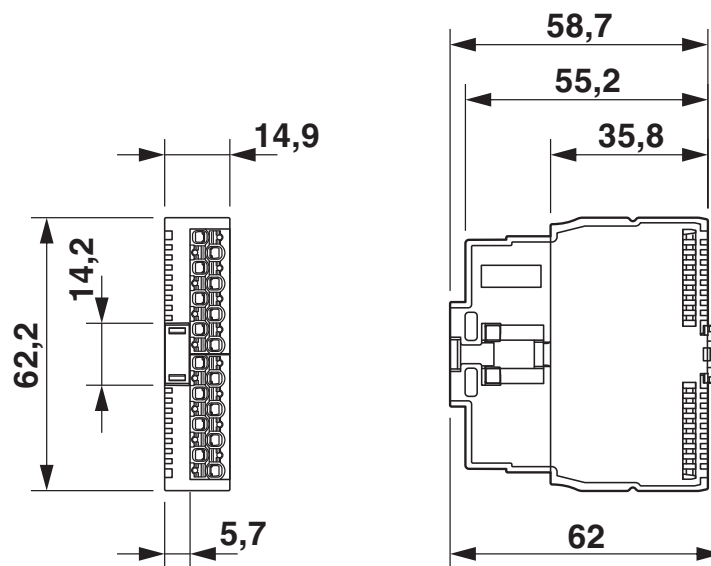
Technical data

Standards and Regulations

| | |
|---------------------------------------|---|
| Interference emission | Noise emission test as per EN 61000-6-4 Class A (industrial applications) |
| Air clearances and creepage distances | IEC 60664-1 |
| Mechanical tests | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g |
| | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g |
| | Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g |
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
| Overvoltage category | II (IEC 60664-1) |

Drawings

Dimensional drawing



Dimensions

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27242604 |
| eCl@ss 11.0 | 27242604 |
| eCl@ss 9.0 | 27242604 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC001599 |
|----------|----------|

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|------------|--|---|---------------|

| | | | |
|--------------|--|--|--|
| cULus Listed | | | |
|--------------|--|--|--|

Accessories

Accessories

Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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Accessories

Crimping pliers - CRIMPFOX DUO 10 - 1031721



Crimping pliers, type of contact: Insulated and uninsulated ferrules, min. cross section: 0.14 mm², max. cross section: 10 mm², for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and frontal insertion, compression: Trapezoidal crimp, black/green

Crimping pliers - CRIMPFOX 10T-F - 1134913



Crimping pliers, type of contact: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, min. cross section: 0.14 mm², max. cross section: 10 mm², For TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, frontal insertion, compression: Trapezoidal crimp, black

I/O component

Module carrier - AXL F BP SE4 - 1088135



Axioline F, Backplane, 4 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20

Module carrier - AXL F BP SE6 - 1088136



Axioline F, Backplane, 6 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20

Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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Accessories

Terminal marking

Label - MM-TML (EX4,2)R C1 TR/BK - 0803979



Label, Roll, transparent, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 4.2 mm

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 5 mm, Number of individual labels: 90000

Marker for terminal blocks - UM6M-TM (5X12) - 0830928



Markers for marking terminal blocks from ABB/Entrelec, 24-section, unmarked, can be marked with THERMOMARK CARD and BLUEMARK, color: white

Marker for terminal blocks from the SNK series from ABB - UCT6M-TM 5 - 0830756



Marker for terminal blocks from the SNK series from ABB, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, THERMOMARK CARD 2.0, THERMOMARK PRIME, BLUEMARK ID, BLUEMARK ID COLOR, TOPMARK LASER, TOPMARK NEO, mounting type: snap into tall marker groove, for terminal block width: 5.2 mm, lettering field size: 4.17 x 11.3 mm

单击下面可查看定价，库存，交付和生命周期等信息

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