

Safety module - IB IL 24 LPSDO 8 V3-PAC - 2701625

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Safety-related digital output module, IP20 protection, for the SafetyBridge system. The module has four safe digital outputs with two-channel occupancy or 8 safe digital outputs with single-channel occupancy

Product description

The safety module is an output module from the Inline product range, designed for use in a SafetyBridge technology system. The safety module can be used as part of an Inline station at any point within an INTERBUS, DeviceNet™, CANopen®, EtherNet/IP™, Sercos, Modbus, PROFINET or PROFIBUS system. The transmission speed of the safety module can be set to 500 kbaud or 2 Mbaud using a switch. One transmission speed must be used consistently within a station. The module has four safe digital outputs for two-channel assignment or eight safe digital outputs for single-channel assignment. Depending on the installation and parameterization, in the SafetyBridge system the safety module can achieve the following safety integrity:

- Up to SIL 3 according to standard EN 61508
- Up to SIL CL 3 according to standard EN 62061
- Up to Cat. 4/PL e according to standard EN ISO 13849-1

Product Features

- Generation and monitoring of the SafetyBridge protocol
- Processing of the parameterized safety logic

Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 360.0 GRM |
| 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

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|--------------------|--------------------|
| Width | 48.8 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

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Technical data

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.) |
| Permissible humidity (storage/transport) | 10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.) |
| Air pressure (operation) | 80 kPa ... 108 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above mean sea level) |
| Degree of protection | IP20 |

Interfaces

| | |
|--------------------|----------------------|
| Fieldbus system | INTERBUS |
| Name | Inline local bus |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBit/s / 2MBit/s |

Digital outputs

| | |
|------------------------------------|---|
| Output name | Digital outputs |
| Connection method | Spring-cage connection |
| | 2, 3, 4-wire |
| Number of outputs | 4 (with two-channel assignment) |
| | 8 |
| Protective circuit | Overload protection, short-circuit protection of outputs |
| Output voltage | 24 V DC ($U_S - 1$ V) |
| Nominal output voltage | 24 V DC |
| Output current | max. 6 A (Total current of all outputs, -25 °C ... 50 °C) |
| | max. 4 A (Total current of all outputs, >50 °C ... 55 °C) |
| Maximum output current per channel | 2 A |
| Maximum output current per group | 3 A |
| Nominal load, inductive | (see safety data) |
| Nominal load, lamp | (see safety data) |
| Nominal load, ohmic | (see safety data) |

Power supply for module electronics

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|----------------------------|----------------------------------|
| Supply voltage | 24 V DC (via voltage jumper) |
| Supply voltage range | 19.2 V DC ... 30 V DC |
| Communications power U_L | 7.5 V (via voltage jumper) |
| Current consumption | max. 230 mA (from the local bus) |

General

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Technical data

General

| | |
|----------------------------------|--|
| Weight | 200 g |
| Note on weight specifications | with male connectors |
| Mounting type | DIN rail |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| 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 logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min |
| | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min |
| Category according to EN 13849-1 | 4 |
| Diagnostics messages | Short-circuit / overload of the digital outputs Error message in diagnostics code (bus) and display by means of the LED on the motor |

Inline potentials

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|--------------------------------|--|
| Communications power U_L | 7.5 V DC (see safety data) |
| Current consumption from U_L | max. 230 mA (see safety data) |
| Main circuit supply U_M | 24 V DC (see safety data) |
| Supply voltage range U_M | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current consumption from U_M | typ. 30 mA (all outputs set including actuator current) |
| | max. 6.03 A |
| Segment supply voltage U_S | 24 V (see safety data) |

SafetyBridge properties

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|---------------------------|------------------------------------|
| Connection to I/O modules | max. 16 (safe digital I/O modules) |
| Logic memory | 60 kByte |

Classifications

eCl@ss

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|------------|----------|
| eCl@ss 4.0 | 27240409 |
| eCl@ss 4.1 | 27240409 |
| eCl@ss 5.0 | 27242205 |
| eCl@ss 5.1 | 27242605 |
| eCl@ss 6.0 | 27242605 |
| eCl@ss 7.0 | 27242605 |
| eCl@ss 8.0 | 27242605 |

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Classifications

ETIM

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|----------|----------|
| ETIM 3.0 | EC001599 |
| ETIM 4.0 | EC002498 |
| ETIM 5.0 | EC001599 |

UNSPSC

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|---------------|----------|
| 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 / Functional Safety / cULus Listed

Ex Approvals

Approvals submitted

Approval details

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|---|
| UL Listed  |
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| cUL Listed  |
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| Functional Safety |
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Approvals





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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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