

SIMATIC HMI CONNECTION BOX ADVANCED FOR MOBILE PANELS, MOUNTED ON WALL, PROFINET AND PROFISAFE, CONNECTIVITY TO SAFETY RELAIS, LOOP IN OF SAFETY CIRCUIT, CONNECTION POINT RECOGNITION, INTEGRATED SWITCH, MRP-CLIENT, IRT



General information

| | |
|--------------------------|--------------------------------------|
| Product type designation | SIMATIC HMI connection box, advanced |
| Product function | |
| • Web-based management | Yes |

FH technology

| | |
|--|-----|
| Safety evaluation through direct wiring | |
| • Reconnection without emergency stop circuit interruption | Yes |
| • Reconnection with emergency stop circuit interruption | No |
| • Monitoring the STOP button | Yes |
| • Monitoring of emergency stop button | Yes |
| • Monitoring of acknowledgement button | Yes |
| Safety evaluation via PROFIsafe | |
| • Reconnection without emergency stop circuit interruption | Yes |
| • Reconnection with emergency stop circuit interruption | Yes |
| • Monitoring the STOP button | Yes |

- Monitoring of emergency stop button
- Monitoring of acknowledgement button

Yes
Yes

Installation type/mounting

| | |
|--|-----|
| Wall mounting/direct mounting possible | Yes |
| Control cabinet installation | No |

Supply voltage

| | |
|-------------------------------------|--------|
| Type of supply voltage | DC |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |

Input current

| | |
|-----------------------------------|------------------------|
| Current consumption (rated value) | 95 mA |
| Starting current inrush I^2t | 0.16 A ² ·s |

Power

| | |
|-------------------------|-------|
| Power consumption, typ. | 2.3 W |
|-------------------------|-------|

Interfaces

| | |
|---------------------------------|-----|
| Connection point identification | Yes |
|---------------------------------|-----|

PROFINET IO

| | |
|---------------------------------|---|
| • Number of PROFINET interfaces | 3 |
|---------------------------------|---|

Industrial Ethernet

| | |
|--|---|
| • Number of industrial Ethernet interfaces | 3 |
| • Industrial Ethernet status LED | 3 |

Protocols

| | |
|--------------|-----|
| PROFINET | Yes |
| IRT | Yes |
| MRP | Yes |
| PROFIsafe | Yes |
| AS-Interface | No |
| EIB/KNX | No |

Protocols (Ethernet)

| | |
|----------|-----|
| • TCP/IP | Yes |
| • DHCP | Yes |
| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |

Further protocols

| | |
|-------------------------------|----|
| • AS-Interface Safety at Work | No |
| • SafetyBUS p | No |
| • CAN | No |
| • INTERBUS | No |

| | |
|---------------------------|-----|
| • INTERBUS-Safety | No |
| • MODBUS | Yes |
| • Data-Highway | No |
| • DeviceNet | No |
| • DeviceNet Safety | No |
| • EtherNet/IP | Yes |
| • Local Operating Network | No |
| • SUCOnet | No |
| • Foundation Fieldbus | No |
| • SERCOS | No |
| • other bus systems | No |

EMC

Emission of radio interference acc. to EN 55 011

| | |
|---|----|
| • Limit class A, for use in industrial areas | No |
| • Limit class B, for use in residential areas | No |

Degree and class of protection

| | |
|-------------------------|------|
| IP65 (all-round) | Yes |
| IP (at the front) | IP65 |
| IP degree of protection | IP65 |

Standards, approvals, certificates

| | |
|-------------------------------|-----|
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| Suitable for safety functions | Yes |

Marine approval

| | |
|-------------------------------------|----|
| • Germanischer Lloyd (GL) | No |
| • American Bureau of Shipping (ABS) | No |
| • Bureau Veritas (BV) | No |
| • Det Norske Veritas (DNV) | No |
| • Lloyds Register of Shipping (LRS) | No |
| • Nippon Kaiji Kyokai (Class NK) | No |
| • Polski Rejestr Statkow (PRS) | No |

Highest safety class achievable in safety mode

| | |
|--|-------|
| • Performance level according to EN ISO 13849-1:2008 | PLe |
| • SIL acc. to IEC 61508 | SIL 3 |

Use in hazardous areas

| | |
|------------------------|----|
| • ATEX Zone 2 | No |
| • ATEX Zone 22 | No |
| • cULus Class I Zone 1 | No |

- cULus Class I Zone 2, Division 2
- FM Class I Division 2

No

No

Ambient conditions

Ambient temperature during operation

- min. 0 °C
- max. 55 °C

Relative humidity

- Operation, max. 90 %

Configuration

Configuration software

- STEP 7 Professional (TIA Portal) No
- WinCC Comfort (TIA Portal) Yes; Optional
- WinCC Advanced (TIA Portal) Yes; Optional
- WinCC Professional (TIA Portal) Yes; Optional

Mechanics/material

Enclosure material (front)

- Plastic Yes
- Aluminum No
- Stainless steel No

Dimensions

| | |
|----------------------------|--------|
| Width of the housing front | 230 mm |
| Height of housing front | 145 mm |
| Depth of housing | 76 mm |

Weights

| | |
|--------------------------|---------|
| Weight without packaging | 0.72 kg |
| Weight incl. packaging | 0.8 kg |

Other

Usable in the following products

- Product 1 6AV2125-*

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