

SIMATIC HMI CONNECTION BOX COMPACT FOR MOBILE  
PANELS, CABINET SOLUTION, PROFINET AND PROFISAFE,  
CONNECTIVITY TO SAFETY RELAIS, CONNECTION POINT  
RECOGNITION



General information	
Product type designation	SIMATIC HMI connection box, compact
Product function	
• Web-based management	No
FH technology	
Safety evaluation through direct wiring	
• Reconnection without emergency stop circuit interruption	No
• Reconnection with emergency stop circuit interruption	Yes
• 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	No
• Monitoring the STOP button	Yes

- Monitoring of emergency stop button
- Monitoring of acknowledgement button

Yes  
Yes

#### Installation type/mounting

Wall mounting/direct mounting possible	No
Control cabinet installation	Yes

#### 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)	18 mA
Starting current inrush $I^2t$	0.003 A <sup>2</sup> ·s

#### Power

Power consumption, typ.	0.43 W
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#### Interfaces

Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	2
Connection point identification	Yes

#### Industrial Ethernet

- Industrial Ethernet status LED

0

#### Protocols

PROFINET	Yes; No switch functionality
IRT	No
MRP	No
PROFIsafe	Yes; No switch functionality
AS-Interface	No
EIB/KNX	No

#### Protocols (Ethernet)

- TCP/IP
- DHCP
- SNMP
- DCP
- LLDP

Yes; No switch functionality  
No  
No  
No  
No

#### Further protocols

- AS-Interface Safety at Work
- CAN
- Data-Highway
- DeviceNet
- DeviceNet Safety

No  
No  
No  
No  
No

• EtherNet/IP	Yes
• Foundation Fieldbus	No
• INTERBUS	No
• INTERBUS-Safety	No
• Local Operating Network	No
• MODBUS	Yes
• SafetyBUS p	No
• SERCOS	No
• SUCOnet	No
• other bus systems	No

## EMC

### Emission of radio interference acc. to EN 55 011

• Limit class A, for use in industrial areas	Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.
• Limit class B, for use in residential areas	No

## Degree and class of protection

IP (at the front)	IP65
IP (rear)	IP20

## Standards, approvals, certificates

CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No; Available soon
Suitable for safety functions	Yes

### Marine approval

• Germanischer Lloyd (GL)	No; Available soon
• 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 ISO 13849-1	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	No
• FM Class I Division 2	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)	No
• WinCC Advanced (TIA Portal)	No
• WinCC Professional (TIA Portal)	No
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
• Aluminum	No
• Stainless steel	No
Dimensions	
Width of the housing front	96 mm
Height of housing front	125 mm
Depth of housing	78 mm
Mounting cutout, width	77.5 mm
Mounting cutout, height	106.5 mm
Overall depth	30 mm
Weights	
Weight without packaging	0.25 kg
Weight incl. packaging	0.29 kg
Other	
Usable in the following products	
• Product 1	6AV2125-*
<b>last modified:</b>	11/11/2016