Data sheet

SIMATIC HMI connection box compact for Mobile Panels, installation in control cabinet, PROFINET and PROFIsafe, connection of safety relay, Connection point detection



General information	
Product type designation	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 	Yes
 Monitoring of acknowledgement button 	Yes
Installation type/mounting	
Wall mounting/direct mounting	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 I²t	0.003 A ² ·s
Power	
Active power input, typ.	0.43 W
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	2
Connection point identification	Yes
Industrial Ethernet	
Industrial Ethernet status LED	0
Protocols	
Protocols PROFINET	Yes; No switch functionality
	Yes; No switch functionality No
PROFINET	· · · · · · · · · · · · · · · · · · ·
PROFINET IRT	No
PROFINET IRT MRP	No No
PROFINET IRT MRP PROFIsafe	No No Yes; No switch functionality
PROFINET IRT MRP PROFIsafe AS-Interface	No No Yes; No switch functionality No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX	No No Yes; No switch functionality No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet)	No No Yes; No switch functionality No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP	No No Yes; No switch functionality No No Yes; No switch functionality
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP	No No Yes; No switch functionality No No Yes; No switch functionality No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP	No No Yes; No switch functionality No No Yes; No switch functionality No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP	No No Yes; No switch functionality No No Yes; No switch functionality No No No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP	No No Yes; No switch functionality No No Yes; No switch functionality No No No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP Further protocols	No No Yes; No switch functionality No No Yes; No switch functionality No No No No No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP Further protocols • AS-Interface Safety at Work	No No Yes; No switch functionality No No Yes; No switch functionality No No No No No No No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP Further protocols • AS-Interface Safety at Work • CAN	No No Yes; No switch functionality No No Yes; No switch functionality No
PROFINET IRT MRP PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP Further protocols • AS-Interface Safety at Work • CAN • Data-Highway	No No Yes; No switch functionality No No Yes; No switch functionality 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 01	1

• Limit class A, for use in industrial areas Yes; EN 61000-6-4, interference emission: Intended for use in

No

industrial areas.

• Limit class B, for use in residential areas

Degree and class of protection

IP (at the front)

IP (rear)

IP20

ii (ieai)	11 20	
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)	Yes	
 American Bureau of Shipping (ABS) 	Yes	
 Bureau Veritas (BV) 	No; Available soon	
Det Norske Veritas (DNV)	Yes	
 Korean Register of Shipping (KRS) 	No	
 Lloyds Register of Shipping (LRS) 	Yes	
 Nippon Kaiji Kyokai (Class NK) 	Yes	
 Polski Rejestr Statkow (PRS) 	No	
 Chinese Classification Society (CCS) 	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	

No

• cULus Class I Zone 1

 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	30 0
Operation, max.	90 %
- Operation, max.	33 %
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-*
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