Data sheet

SIMATIC HMI connection box Standard for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, terminal detection, integrated switch



General information	
Product type designation	Standard
Product function	
Web-based management	Yes
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	V
Wall mounting/direct mounting	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)	96 mA
Starting current inrush I2t	0.15 A ² ·s
Power	
Active power input, typ.	2.3 W
Interfaces	
Number of industrial Ethernet interfaces	3
Number of PROFINET interfaces	3
Connection point identification	Yes
Industrial Ethernet	
Industrial Ethernet status LED	3
Protocols	
PROFINET	Yes
IRT	No
PROFIsafe	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
	Yes
• SNMP	
• SNMP • DCP	Yes Yes
SNMPDCPLLDP	Yes
SNMPDCPLLDPRedundancy mode	Yes Yes
SNMP DCP LLDP Redundancy mode Media redundancy	Yes Yes Yes
SNMP DCP LLDP Redundancy mode Media redundancy — MRP	Yes Yes
 SNMP DCP LLDP Redundancy mode Media redundancy — MRP Further protocols 	Yes Yes Yes No
 SNMP DCP LLDP Redundancy mode Media redundancy — MRP Further protocols AS-Interface Safety at Work 	Yes Yes Yes No
 SNMP DCP LLDP Redundancy mode Media redundancy — MRP Further protocols 	Yes Yes Yes No



• DeviceNet	No
DeviceNet Safety	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

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Emission of radio interference acc. to EN 55 011

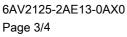
Limit class A, for use in industrial areas
 Limit class B, for use in residential areas
 No

Degree and class of protection	
IP degree of protection	IP65
IP65 (all-round)	Yes
IP (at the front)	IP65

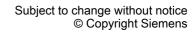
Standards, approvals, certificates		
CE mark	Yes	
cULus	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	No; Available soon	
Suitable for safety functions	Yes	
Highest safety class achievable in safety mode		
 Performance level according to ISO 13849-1 	PLe	
• SIL acc. to IEC 61508	SIL 3	
Use in hazardous 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	
Marine approval		
Germanischer Lloyd (GL)	Yes	
 American Bureau of Shipping (ABS) 	Yes	
Bureau Veritas (BV)	No; Available soon	
Det Norske Veritas (DNV)	Yes	

No

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• Korean Register of Shipping (KRS)



Lloyds Register of Shipping (LRS)
 Nippon Kaiji Kyokai (Class NK)
 Polski Rejestr Statkow (PRS)
 Chinese Classification Society (CCS)
 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)
 WinCC Comfort (TIA Portal)
 Yes; Optional

WinCC Advanced (TIA Portal)
 WinCC Professional (TIA Portal)
 Yes; Optional

Mechanics/material

Enclosure material (front)

Plastic YesAluminum NoStainless 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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