SIEMENS

Data sheet



SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT

General information		
Product type designation	Connection box	
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 	No	
 Monitoring the STOP button 	Yes	
 Monitoring of emergency stop button 	Yes	
 Monitoring of acknowledgement button 	Yes	
Installation type/mounting		
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)	95 mA	
Starting current inrush I2t	0.16 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	Yes	
PROFIsafe	Yes	
EtherNet/IP	Yes	
AS-Interface	No	
EIB/KNX	No	
Protocols (Ethernet)		
• TCP/IP	Yes	
• DHCP	Yes	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
Redundancy mode		
Media redundancy		
— MRP	Yes	
Further protocols		
• MODBUS	Yes	
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		
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	
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	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
• max.	55 °C	
Relative humidity		
Operation, max.	90 %	
configuration / header		
- Sannguration / neader		

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 (with packaging)	0.8 kg
Other	
Usable in the following products	
Product 1	6AV2125-*

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