SIEMENS

Data sheet

6AV2125-2AE13-0AX0

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 Wall mounting/direct mounting	Yes
Control cabinet installation	No
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 I ² t	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
MRP	No
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
• CAN	No
● Data-Highway	No
DeviceNet	No
DeviceNet Safety	No
- Device the energy	

• 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 	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	
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	
• 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°0
• 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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