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	Connection box
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
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 A²·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

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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	No
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	
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	230 mm
Height	151.5 mm
Depth	75.4 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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