## 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	Advanced	
Product function		
Web-based management	Yes	
FH technology		
Safety evaluation through direct wiring		
<ul> <li>Reconnection without emergency stop circuit interruption</li> </ul>	Yes	
<ul> <li>Reconnection with emergency stop circuit interruption</li> </ul>	No	
<ul> <li>Monitoring the STOP button</li> </ul>	Yes	
<ul> <li>Monitoring of emergency stop button</li> </ul>	Yes	
<ul> <li>Monitoring of acknowledgement button</li> </ul>	Yes	
Safety evaluation via PROFIsafe		
<ul> <li>Reconnection without emergency stop circuit interruption</li> </ul>	Yes	
<ul> <li>Reconnection with emergency stop circuit interruption</li> </ul>	No	
<ul> <li>Monitoring the STOP button</li> </ul>	Yes	

Monitoring of emergency stop button	Yes
Monitoring of acknowledgement button	Yes
• Monitoring of acknowledgement button	100
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 <sup>2</sup> ·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
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	
AS-Interface Safety at Work	No
• CAN	No
Data-Highway	No
→ Dala-i liyilway	110



• 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

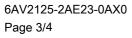
Limit class A, for use in industrial areas
 Limit class B, for use in residential areas

No

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

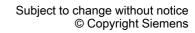
Standards, approvals, certificates			
CE mark	Yes		
cULus	Yes		
RCM (formerly C-TICK)	Yes		
KC approval	No; Available soon		
Suitable for safety functions	Yes		
Highest safety class achievable in safety mode			
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PLe		
• SIL acc. to IEC 61508	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		
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes		
Bureau Veritas (BV)	No; Available soon		

Yes No



• Det Norske Veritas (DNV)

• 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)	No

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

wechanics/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 fo	lowing products		
Product 1		6AV2125-*	

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