## Data sheet

SIMATIC HMI connection box compact for Mobile Panels, installation in control cabinet, PROFINET and PROFIsafe, connection of safety relay, Connection point detection



General information	
Product type designation	Compact
Product function	
Web-based management	No
FH technology	
Safety evaluation through direct wiring	
<ul> <li>Reconnection without emergency stop circuit interruption</li> </ul>	No
<ul> <li>Reconnection with emergency stop circuit interruption</li> </ul>	Yes
<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
In the Habitan to the control of the	
Installation type/mounting Wall mounting/direct mounting	No
Control cabinet installation	Yes
Control Cabinet Installation	165
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)	18 mA
Starting current inrush I²t	0.003 A²·s
Power	
Active power input, typ.	0.43 W
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	2
Connection point identification	Yes
Industrial Ethernet	
maddia Enomet	
Industrial Ethernet status LED	0
	0
Industrial Ethernet status LED	Yes; No switch functionality
Industrial Ethernet status LED  Protocols	
Industrial Ethernet status LED  Protocols  PROFINET	Yes; No switch functionality
Industrial Ethernet status LED  Protocols PROFINET IRT	Yes; No switch functionality No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe	Yes; No switch functionality No Yes; No switch functionality
● Industrial Ethernet status LED  Protocols PROFINET IRT PROFIsafe AS-Interface	Yes; No switch functionality No Yes; No switch functionality No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX	Yes; No switch functionality No Yes; No switch functionality No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)	Yes; No switch functionality No Yes; No switch functionality No No
● Industrial Ethernet status LED  Protocols PROFINET IRT PROFIsafe AS-Interface EIB/KNX Protocols (Ethernet) ● TCP/IP	Yes; No switch functionality No Yes; No switch functionality No No Yes; No switch functionality
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP	Yes; No switch functionality No Yes; No switch functionality No No Yes; No switch functionality No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP  ● SNMP	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP  ● SNMP  ● DCP	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP  ● SNMP  ● DCP  ● LLDP	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No
Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  DCP  LLDP  Redundancy mode	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP  ● SNMP  ● DCP  ● LLDP  Redundancy mode  Media redundancy	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No No
Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  DCP  LLDP  Redundancy mode  Media redundancy  MRP	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No No
● Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  ● TCP/IP  ● DHCP  ● SNMP  ● DCP  ● LLDP  Redundancy mode  Media redundancy  — MRP  Further protocols	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No No No No
Industrial Ethernet status LED  Protocols  PROFINET  IRT  PROFIsafe  AS-Interface  EIB/KNX  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  DCP  LLDP  Redundancy mode  Media redundancy  MRP  Further protocols  AS-Interface Safety at Work	Yes; No switch functionality No Yes; No switch functionality No No Ves; No switch functionality No No No No No No No No



<ul> <li>DeviceNet</li> </ul>	No
DeviceNet Safety	No
• EtherNet/IP	Yes
Foundation Fieldbus	No
• INTERBUS	No
INTERBUS-Safety	No
<ul> <li>Local Operating Network</li> </ul>	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

Yes; EN 61000-6-4, interference emission: Intended for use in • Limit class A, for use in industrial areas industrial areas.

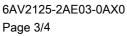
No • Limit class B, for use in residential areas

Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20

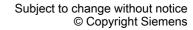
Standards, approvals, certificates		
CE mark	Yes	
cULus	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	No; Available soon	
Suitable for safety functions	Yes	
Highest safety class achievable in safety mode		
Performance level according to ISO 13849-1	PLe	
• SIL acc. to IEC 61508	SIL 3	
Use in hazardous areas		
ATEX Zone 2	No	
ATEX Zone 22	No	
• cULus Class I Zone 1	No	
<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	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	
<ul><li>Det Norske Veritas (DNV)</li></ul>	Yes	

No

**PNAP** 



• 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	
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Professional (TIA Portal)</li> </ul>	No

iviecnanics/material	
Enclosure material (front)	
• Plastic	Yes
Aluminum	No
Stainless steel	No

Dimensions	
Width of the housing front	96 mm
Height of housing front	125 mm
Depth of housing	78 mm
Mounting cutout, width	77.5 mm
Mounting cutout, height	106.5 mm
Overall depth	30 mm

Weights	
Weight without packaging	0.25 kg
Weight incl. packaging	0.29 kg

Other	
Usable in the following products	
• Product 1	6AV2125-*

last modified: 10/13/2020

