

Data sheet

6AV3688-3ED13-0AX0

Spare part Push Button Panel PP17 II 32 short-stroke keys, 32 surface LEDs, 16 DI and 16 DO terminals PROFIBUS DP12

General information

Product type designation	PP17-II
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Control elements

With parameterizable keys	Yes
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Keyboard fonts

• Membrane keyboard — user-definable label membrane keys	Yes
• Function keys — Number of function keys	32
• Short-stroke keys — Number of short-stroke keys	32

Expansions for operator control of the process

• DP direct LEDs (LEDs as S7 output I/O)	32
• Number of color modes for LED	3
• Direct keys (keys as S7 input I/O)	32

Installation type/mounting

Mounting type	Clamp terminals
Mounting position	vertical
Rack mounting	No
Front mounting	Yes
Rail mounting	No
Wall mounting/direct mounting	No
Mounting in portrait format possible	No
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Number of slots for command devices and signaling units	0

Supply voltage

Type of supply voltage	DC
permissible range, lower limit (DC)	18 V
permissible range, upper limit (DC)	30 V

Input current

Starting current inrush I^2t	0.03 A ² ·s
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Type of output	
LED colors	Red, yellow, green
• red	Yes
• yellow	Yes
• green	Yes
• white	No
• blue	No
Digital inputs	
Number of digital inputs	16
Input voltage	
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	16
• in groups of	4
Short-circuit protection	Yes
Switching capacity of the outputs	
• with resistive load, max.	100 mA
• with inductive load, max.	100 mA; max. 2 watts
• on lamp load, max.	2 W
Output voltage	
• Rated value (DC)	24 V
Total current of the outputs	
• Current per channel, max.	100 mA
• Current per group, max.	500 mA
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Industrial Ethernet	
• Industrial Ethernet status LED	0
• Number of ports of the integrated switch	0
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
PROFINET CBA	No
IRT	No
PROFIsafe	No
PROFIBUS	Yes
MPI	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	

• TCP/IP	No
Redundancy mode	
• MRP	No
Further protocols	
• AS-Interface Safety at Work	No
• CAN	No
• Data-Highway	No
• DeviceNet	No
• DeviceNet Safety	No
• EtherNet/IP	No
• Foundation Fieldbus	No
• INTERBUS	No
• INTERBUS-Safety	No
• Local Operating Network	No
• MODBUS	No
• SafetyBUS p	No
• SERCOS	No
• SUCOnet	No
• other bus systems	No
Test commissioning functions	
Illuminant test	Yes
Key and signal lamp test	Yes; Automatically when switching on
EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes
• Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	No
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
cULus	No
RCM (formerly C-TICK)	Yes
KC approval	No
Suitable for safety functions	No
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)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
• Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
• Operation (vertical installation)	0 °C to +55 °C
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
• Operation (max. tilt angle)	0 °C to +55 °C
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	55 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	95 %
Configuration	
Configuration software	
• STEP 7 Basic (TIA Portal)	Yes
• STEP 7 Professional (TIA Portal)	Yes
Functionality under WinCC (TIA Portal)	
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes
• LOGO!	No
• WinAC	Yes
• SINUMERIK	No
• SIMOTION	No

- Allen Bradley (EtherNet/IP)
- Allen Bradley (DF1)
- Mitsubishi (MC TCP/IP)
- Mitsubishi (FX)
- OMRON (FINS TCP)
- OMRON (LINK/Multilink)
- Modicon (Modbus TCP/IP)
- Modicon (Modbus)

No
No
No
No
No
No
No
No

Mechanics/material

Enclosure material (front)

- Plastic
- Aluminum
- Stainless steel

No
Yes
No

Service life

- Short-stroke keys (in switching cycles)
- LEDs (ON period)

1 500 000
100 %

Dimensions

Width of the housing front
Height of housing front
Mounting cutout, width
Mounting cutout, height
Overall depth

240 mm
204 mm
226 mm
190 mm
53 mm

Weights

Weight without packaging

1 130 g

last modified:

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