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Data sheet 6AV2185-8DF01-0AA0

Extension Unit 15" KP12F PN compatible with all IP65 fully enclosed 16:9 HMI/IPC devices. Flexible configuration of control elements; 5 mounting positions; 5 control elements can be installed. PROFIsafe connection (control elements ordered separately)



General information	
Product type designation	Extension Unit 15" KP12F PN
Control elements	
Version of actuating element	1x Key Panel 12
Operating principle of the actuating element	Tactile feedback
Functional lighting	Yes; Freely configurable colors: Red, green, blue, white, yellow
With parameterizable keys	Yes
Installation type/mounting	
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint
Rack mounting	No
Front mounting	No
Number of slots for command devices and signaling units	5
RFID reader can be installed	Yes; SIMATIC RF200 Access Control Reader RF1060R
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)	150 mA; without load
Power	
Active power input, typ.	3.6 W; Additional 0.1 W per operator control with LED or 0.5 W per RGB illuminated pushbutton or 2.6 W per KP12
Interfaces	
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch
Protocols	
PROFIsafe	Yes; 1x SIL 2 (two-channel) or 2x SIL 3 (single-channel) emergency stop sensor
Redundancy mode	
Media redundancy	
— MRP	Yes
Degree and class of protection	
IP (all-round)	IP65
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes

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RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes; EAC
Suitable for safety functions	Yes; e.g. installation of emergency stop
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	2 000 m
Relative humidity	
● Operation, max.	90 %; no condensation
Mechanics/material	
Material	
● aluminum	Yes
Enclosure material (front)	
● Aluminum	Yes; Knockout covered with black film
Dimensions	
Width	396 mm
Height	99 mm
Depth	100.65 mm
Weights	
Weight (without packaging)	2.5 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	Power supply connector

Classifications

	Version	Classification
eClass	16	27-33-02-92
eClass	14	27-33-02-92
eClass	12	27-33-02-92
eClass	9.1	27-33-02-92
eClass	9	27-33-02-92
eClass	8	27-24-92-03
eClass	7.1	27-24-92-03
eClass	6	27-24-92-03
ETIM	10	EC002584
ETIM	9	EC002584
ETIM	8	EC002584
ETIM	7	EC002584
IDEA	4	3552
UNSPSC	15	32-15-17-03

Approvals / Certificates

General Product Approval					EMV
Manufacturer Declaration	CE EG-Konf.	UL UL	EAC	China RoHS	RCM

Functional Saftey	Industrial Communication

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TUEV	Type Examination Certificate	TUEV	PROFIsafe	PROFINET

Further information

Usable in the following products: Detailed information can be found in the cross-list, which is available for download in the following SIOS note: 40466415
https://support.industry.siemens.com/cs/document/40466415/status-of-the-simatic-hmi-accessories-and-cross-list-update?dti=0&lc=en-WW

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