Data sheet

6AV2127-1AB00-0LX1

SIMATIC HMI KP8 PN LX, 8 short-stroke switches long, 1-6 mm sheet thickness, PN interfaces, black neutral design, 8 configurable DI/DQ pins, 24 V DC can be looped through, parameterizable as of STEP 7 V5.5





Product type designation	Key Panel KP8 PN LX (1 6 mm)
Control elements	
With parameterizable keys	Yes
Keyboard fonts	
Membrane keyboard	
user-definable label membrane keys	No; possible via adjacent display
Function keys	with L-pattern at key edge
— Number of function keys	8; 19 x 19 mm per button
Short-stroke keys	
— Number of short-stroke keys	8
Expansions for operator control of the process	
DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness
 Number of color modes for LED 	5; red, green, blue, yellow, white
 Direct keys (keys as S7 input I/O) 	8
nstallation type/mounting	
Mounting type	clamp fastening with additional mounting clips
Mounting position	Horizontal, vertical
Rack mounting	No
Front mounting	Yes; mounting clip - Torx T20 tighten to 0.2 Nm; enclosure - Torx T10 tighten to 0.2 Nm
Rail mounting	No
Wall mounting/direct mounting	No
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear
Number of slots for command devices and signaling units	0
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; 24 V can be looped through connector, interrupted when pulled
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
nput current	
Current consumption (rated value)	0.3 A
Type of output	
LED colors	
• red	Yes; Adjustable brightness
• yellow	Yes; Adjustable brightness
• green	Yes; Adjustable brightness

a white	Voc. Adjustable brightness
white blue	Yes; Adjustable brightness Yes; Adjustable brightness
Diue Digital inputs	i es, Aujustable bliglitiless
Number of digital inputs	8: May 8 inputs and outputs (total)
Input voltage	8; Max. 8 inputs and outputs (total)
Rated value (DC)	24 V
Digital outputs	24 V
Number of digital outputs	8; Max. 8 inputs and outputs (total)
Short-circuit protection	Yes
Switching capacity of the outputs	100
with resistive load, max.	100 mA
Output voltage	
Rated value (DC)	24 V; Non-isolated
Total current of the outputs	
Current per channel, max.	100 mA
Current per group, max.	800 mA
Interfaces	
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch
Industrial Ethernet	
Industrial Ethernet status LED	2; Per port
 Number of ports of the integrated switch 	2; Per port
Protocols	
PROFINET	Yes; also 3rd party PLC
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
IRT	Yes
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	No
MPI	No
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	No
Redundancy mode	
Media redundancy	
— MRP	Yes
Further protocols	
 AS-Interface Safety at Work 	No
• CAN	No
Data-Highway	No
DeviceNet	No
 DeviceNet Safety 	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; During switch on
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; Group 1, measured at a distance of 10 m
• Limit class B, for use in residential areas	No

Processor Proc	Degree and class of protection	
Pread		IP64
NEMA (front)		
■ Enclosure Type 4 at the front No Standards, approvalls, cartificates Yes CE mark Yes CSA approval No UL approval No CULus No FM approval No FM approval No FM approval No KCA (promety C-TICK) No KCA (promety GeoFR) No EAC (tomety GeoFR) No CCC No, not necessary Suitable for safety functions No Marian approval No 4 FEX Zone 2 No • ATEX Zone 2 No • ATEX Zone 2 No • CULus Class I Zone 1 No • CULus Class I Zone 2, Division 2 No • FM Class I Division 2 No • FM Class I Division 1 No • Livus Rapital Sidery (FM) No • Livus Rapital Sidery (FM) No • Livus Rapital Sidery (FMS) No • Name approval No • Polak Regist Sidery (FMS) No<	. ,	No
Enclosure Type 12 at the front CE mark Yes CSA approval No UL approval No cULus No FM approval No RCMI (formerly C-TICK) No RCAD (fromerly GouteR) No EAC (formerly GouteR) No CCC No not necessary Suitable for safety functions No Marine approval No Use in bazardous areas No * ATEX Zone 2 No * ATEX Zone 2 No * CLULUS Class I Zone 2, Division 2 No * CLULUS Class I Zone 2, Division 2 No * CH Class I Division 2 No * CH Class I Division 2 No * CH Class I Division 2 No * American Bureau of Shipping (ABS) No * Deat Nosek Vertias (NV) No * Deat Nosek Vertias (NV) No * Polos Risk Riykviak (Class SN) No * Polos Risk Riykviak (Class SN) No * Polos Risk Riykviak (Class SN) No	**	
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CE mark		
CSA approval		Von
LL approval		
Main	· ·	
Mane approval No		
RCM (comerly C-TICK) No		
KC approval No No		
EAC (formerly Gost-R)		
Sutable for safety functions No		
Suitable for safety functions		
Marine approval No		
Variable	·	
		No
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Configuration / header Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) Functionality under WinCC (TIA Portal)	•	05.0/
Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) Yes Functionality under WinCC (TIA Portal)		95 %; no condensation
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Functionality under WinCC (TIA Portal)	STEP 7 Basic (TIA Portal)	Yes
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Process coupling	Functionality under WinCC (TIA Portal)	
	Process coupling	

• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No
WinAC	Yes
• SINUMERIK	No
• SIMOTION	No
 Allen Bradley (EtherNet/IP) 	No
 Allen Bradley (DF1) 	No
Mitsubishi (MC TCP/IP)	No
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	No
 Modicon (Modbus TCP/IP) 	No
Modicon (Modbus)	No
Mechanics/material	
Enclosure material (front)	Bayblend FR3010 enclosure, Autotex F150 front membrane
Plastic	Yes; neutral enclosure, black RAL 9005
Aluminum	No
Stainless steel	No
Service life	
 Short-stroke keys (in switching cycles) 	1 500 000
 LEDs (ON period) 	100 %
Dimensions	
Width of the housing front	40.7 mm
Height of housing front	252.4 mm
Mounting cutout, width	24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
Mounting cutout, height	244 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
Overall depth	68.15 mm; mounting plate thickness max. 1 6 mm
Weights	
Weight (without packaging)	297 g
Weight (with packaging)	475 g; incl. 1x 12-pole connector and 6x mounting clips
Other	
Merchandise	Yes; K S27602/TKS-008-KP8 PN LX-SIEMENS-C10093
Manufacturer name	GETT Gerätetechnik GmbH
Manufacturer's address	Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany
Note:	Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0

last modified:

8/3/2022