

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



General information	
Product type designation	Key Panel KP8 PN LX (1 mm)
Control elements	
With parameterizable keys	Yes
Keyboard fonts	
<ul style="list-style-type: none"> <li>Membrane keyboard <ul style="list-style-type: none"> <li>— user-definable label membrane keys</li> </ul> </li> <li>Function keys <ul style="list-style-type: none"> <li>— Number of function keys</li> </ul> </li> <li>Short-stroke keys <ul style="list-style-type: none"> <li>— Number of short-stroke keys</li> </ul> </li> </ul>	<p>No; possible via adjacent display with L-pattern at key edge</p> <p>8; 19 x 19 mm per button</p> <p>8</p>
Expansions for operator control of the process	
<ul style="list-style-type: none"> <li>DP direct LEDs (LEDs as S7 output I/O)</li> <li>Number of color modes for LED</li> <li>Direct keys (keys as S7 input I/O)</li> </ul>	<p>8; Adjustable brightness</p> <p>5; red, green, blue, yellow, white</p> <p>8</p>
Installation 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
Input current	
Current consumption (rated value)	0.3 A
Type of output	
LED colors <ul style="list-style-type: none"> <li>red</li> <li>yellow</li> <li>green</li> </ul>	<p>Yes; Adjustable brightness</p> <p>Yes; Adjustable brightness</p> <p>Yes; Adjustable brightness</p>

• white	Yes; Adjustable brightness
• blue	Yes; Adjustable brightness
<b>Digital inputs</b>	
Number of digital inputs	8; Total inputs and outputs max. 8 and 1x SIL 2 or 2x SIL 3
Input voltage	
• Rated value (DC)	24 V
<b>Digital outputs</b>	
Number of digital outputs	8; Max. 8 inputs and outputs (total)
Short-circuit protection	Yes
Switching capacity of the outputs	
• 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
<b>Interfaces</b>	
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
<b>Protocols</b>	
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
<b>Test commissioning functions</b>	
Illuminant test	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on
<b>EMC</b>	
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

<b>Degree and class of protection</b>	
IP (at the front)	IP54
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4 at the front	No
• Enclosure Type 4x at the front	No
• Enclosure Type 12 at the front	No
<b>Standards, approvals, certificates</b>	
CE mark	Yes
CSA approval	No
UL approval	No
cULus	No
FM approval	No
RCM (formerly C-TICK)	No
KC approval	No
EAC (formerly Gost-R)	No
CCC	No; not necessary
Suitable for safety functions	No
Marine approval	No
<b>Use in hazardous areas</b>	
• 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
<b>Marine approval</b>	
• 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
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	60 °C
<b>Operation (vertical installation)</b>	
— For vertical installation, min.	0 °C
— For vertical installation, max.	60 °C
<b>Operation (max. tilt angle)</b>	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	60 °C
<b>Operation (vertical installation, portrait format)</b>	
— For vertical installation, min.	0 °C
— For vertical installation, max.	60 °C
<b>Operation (max. tilt angle, portrait format)</b>	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	60 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	70 °C
<b>Relative humidity</b>	
• Operation, max.	95 %; no condensation
<b>configuration / header</b>	
<b>Configuration software</b>	
• STEP 7 Basic (TIA Portal)	Yes
• STEP 7 Professional (TIA Portal)	Yes
<b>Functionality under WinCC (TIA Portal)</b>	
<b>Process coupling</b>	

<ul style="list-style-type: none"> <li>• S7-1200</li> <li>• S7-1500</li> <li>• S7-200</li> <li>• S7-300/400</li> </ul>	Yes; with ET 200pro CPU and ET 200S CPU
	Yes
	No
	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic V11 (or higher)
<ul style="list-style-type: none"> <li>• LOGO!</li> </ul>	No
<ul style="list-style-type: none"> <li>• WinAC</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SINUMERIK</li> </ul>	No
<ul style="list-style-type: none"> <li>• SIMOTION</li> </ul>	No
<ul style="list-style-type: none"> <li>• Allen Bradley (EtherNet/IP)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Allen Bradley (DF1)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Mitsubishi (MC TCP/IP)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Mitsubishi (FX)</li> </ul>	No
<ul style="list-style-type: none"> <li>• OMRON (FINS TCP)</li> </ul>	No
<ul style="list-style-type: none"> <li>• OMRON (LINK/Multilink)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Modicon (Modbus TCP/IP)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Modicon (Modbus)</li> </ul>	No
<b>Mechanics/material</b>	
Enclosure material (front)	Bayblend FR3010 enclosure, Autotex F150 front membrane
<ul style="list-style-type: none"> <li>• Plastic</li> </ul>	Yes; neutral enclosure, black RAL 9005
<ul style="list-style-type: none"> <li>• Aluminum</li> </ul>	No
<ul style="list-style-type: none"> <li>• Stainless steel</li> </ul>	No
<b>Service life</b>	
<ul style="list-style-type: none"> <li>• Short-stroke keys (in switching cycles)</li> </ul>	1 500 000
<ul style="list-style-type: none"> <li>• LEDs (ON period)</li> </ul>	100 %
<b>Dimensions</b>	
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
<b>Weights</b>	
Weight (without packaging)	280 g
Weight (with packaging)	300 g; incl. 1x 12-pole connector and 6x mounting clips
<b>Other</b>	
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

last modified:

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