

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"> • Membrane keyboard <ul style="list-style-type: none"> — user-definable label membrane keys • Function keys <ul style="list-style-type: none"> — Number of function keys • Short-stroke keys <ul style="list-style-type: none"> — Number of short-stroke keys 	No; possible via adjacent display with L-pattern at key edge 8; 19 x 19 mm per button 8
Expansions for operator control of the process	
<ul style="list-style-type: none"> • DP direct LEDs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O) 	8; Adjustable brightness 5; red, green, blue, yellow, white 8
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"> • red • yellow • green • white • blue 	Yes; Adjustable brightness Yes; Adjustable brightness Yes; Adjustable brightness Yes; Adjustable brightness Yes; Adjustable brightness
Digital inputs	
Number of digital inputs	8; Total inputs and outputs max. 8 and 1x SIL 2 or 2x SIL 3
Input voltage	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V
Digital outputs	

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
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
Degree and class of protection	
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
Standards, approvals, certificates	
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
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.	60 °C
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	60 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	60 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	60 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	60 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	70 °C
Relative humidity	
• Operation, max.	95 %; no condensation
configuration / header	
Configuration software	
• STEP 7 Basic (TIA Portal)	Yes
• STEP 7 Professional (TIA Portal)	Yes
Functionality under WinCC (TIA Portal)	
Process coupling	
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes
• S7-200	No

<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • LOGO! 	No
<ul style="list-style-type: none"> • WinAC 	Yes
<ul style="list-style-type: none"> • SINUMERIK 	No
<ul style="list-style-type: none"> • SIMOTION 	No
<ul style="list-style-type: none"> • Allen Bradley (EtherNet/IP) 	No
<ul style="list-style-type: none"> • Allen Bradley (DF1) 	No
<ul style="list-style-type: none"> • Mitsubishi (MC TCP/IP) 	No
<ul style="list-style-type: none"> • Mitsubishi (FX) 	No
<ul style="list-style-type: none"> • OMRON (FINS TCP) 	No
<ul style="list-style-type: none"> • OMRON (LINK/Multilink) 	No
<ul style="list-style-type: none"> • Modicon (Modbus TCP/IP) 	No
<ul style="list-style-type: none"> • Modicon (Modbus) 	No
Mechanics/material	
Enclosure material (front)	Bayblend FR3010 enclosure, Autotex F150 front membrane
<ul style="list-style-type: none"> • Plastic 	Yes; neutral enclosure, black RAL 9005
<ul style="list-style-type: none"> • Aluminum 	No
<ul style="list-style-type: none"> • Stainless steel 	No
Service life	
<ul style="list-style-type: none"> • Short-stroke keys (in switching cycles) 	1 500 000
<ul style="list-style-type: none"> • 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)	280 g
Weight (with packaging)	300 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
last modified:	6/18/2021 