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SIMATIC HMI KP8/KP8F/KP32F

Overview



P_ST80_XX_01757
Key Panel, blank front, at the front, populated



P_ST80_XX_01755
Key Panel, blank front, at the back, not populated



SIMATIC HMI Key Panels

- Optimum operability thanks to large mechanical keys and multi-colored LED backlighting (daylight readable)
- Over 60% time savings for wiring and installation (Plug&Play)
- More than 30% savings in material costs compared to conventional keypad operator panels
- 2 PROFINET ports (incl. switch) already integrated for setting up line and ring topologies
- Freely configurable digital I/Os on the rear for connecting key-operated switches, indicator lights, etc.
- Connection of fail-safe emergency stop buttons or other fail-safe signals with KP8F and KP32F (in SIL2 or SIL3)
- Functionally compatible with all standard PROFINET master CPUs, also non-Siemens
- KP8 PN LX is suitable for direct installation next to monitors
- KP8 and blank front design, also optimized for installation in IPC Extension Units in IP65
- Maximum flexibility due to parameterization
- Blank front design for standardized assembly of flexible operator panels
- Installation enclosure, fully-enclosed IP65, no drilling or milling necessary, KP8(F) not included; for accessories see technical specifications for installation enclosure

Benefits

- Less planning and assembly work than in the case of discrete components, thanks to the modular design
- Savings in hardware costs: Distributed I/O, 2 PROFINET connections and I/Os are combined in one device
- Keys and lamps can be labeled in IP65 using a standard printer (black and white or color)
- High flexibility due to freely configurable colors, switch/button function and integrated diagnostics function
- Any key color can be adapted dynamically to the process
- Integrated standard inputs and outputs for actuators and sensors, and each pin can be used as input or output
- Blank front design can be used to reserve space for later system extensions and for easy mounting of standard 22.5 mm operator controls
- Functions and design are optimally matched in the SIMATIC HMI spectrum, e.g. in PRO device Extension Units
- SIL 2/3 safety with the "F" variants, e.g. EMERGENCY STOP can be connected directly

All further details can be viewed in the manual at:

<http://support.automation.siemens.com/WWW/view/en/56652789>

Application

- Ideally suited to most verticals (automotive, F&B to oil & gas) thanks to the smooth and rugged front, even in hazardous areas (see technical specifications)
- For intuitive, fast and very easy operation with minimum wiring
- Language-neutral feedback with multi-color LEDs in the keys, even readable in sunlight
- Extensions possible when built-in, without the need for cutting tools
- Special-purpose machine manufacturing benefits from the high degree of flexibility

Design**SIMATIC HMI Key Panel – Blank front design**

- Simple seamless installation with mounting clips
- Rugged design, suitable for harsh industrial environments
- Prepared for installation of 22.5 mm standard components
- Easy installation, or retrofitting during operation, of standard 22.5 mm operator controls
- IP65 installation enclosure for KP8(F); 22.5 mm operator controls partially included

SIMATIC HMI Key Panel – Basic functions

- Smooth front, therefore easy to clean
- Large mechanical illuminated pushbutton units can be programmed as switches or buttons
- Loop-through 24 V DC power supply, no additional terminals required
- Two PROFINET interfaces, perfect for line operation
- Suitable for ring operation thanks to media redundancy protocol (MRP), normal running even when the PROFINET power supply cable is unplugged
- Inputs and outputs on the rear, each pin can be used as an input or an output
- The F variants are also equipped with SIL 2/3 inputs

SIMATIC HMI KP8 PN

- 8 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for harsh industrial environments
- 8 freely configurable digital I/Os
- For standard CPUs

SIMATIC HMI KP8 PN LX

- 8 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for industrial environments
- Flexible installation
- 8 freely configurable digital I/Os
- For standard CPUs
- 1-to-1 configuring compatible to SIMATIC HMI KP8 PN

SIMATIC HMI KP8F PN

- Additional digital fail-safe inputs for connecting single-channel or 1 x 2-channel sensors, such as emergency stop
- For fail-safe CPUs

SIMATIC HMI KP32F PN

- 32 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for harsh industrial environments
- 16 freely configurable digital I/Os
- Additional digital fail-safe inputs for connecting 4 x 1-channel or 2 x 2-channel sensors, such as emergency stop
- For fail-safe and standard CPUs

Demo case

SIMATIC HMI Key Panel – low-cost demo and experiment case.

The case consists of a KP8 PN with a 1211C CPU including demo program, set on a small plexiglas stand ready for use.

- Content:
 - 1x case
 - 1x KP8 PN
 - 1x CPU1211C
 - 1x stand, permanently wired, including program
- Power supply possible with a standard laptop power supply unit (not included in scope of supply)
Prices and delivery times are available on request

Can be ordered by fax:

Siemens AG, Mr. Michael Christ
Industry Sector, I IA CE SE MF RS FDS
Würzburger Str. 121, 90766 Fürth, Germany
Tel.: +49 911 750-4128 / Fax: +49 911 750-2411

Technical specifications

Article number	6AV3688-3AY36-0AX0	6AV2127-1AB00-0LX1
	SIMATIC HMI KP8 PN	SIMATIC HMI KP8 PN LX 6mm
General information		
Product type designation	KP8 PN	Key Panel KP8 PN LX (1 ... 6 mm)
Control elements		
With parameterizable keys	Yes	Yes
Keyboard fonts		
• Membrane keyboard		
— user-definable label membrane keys	Yes	No; possible via adjacent display with L-pattern at key edge
• Function keys		
— Number of function keys	8	8; 19 x 19 mm per button
• Short-stroke keys		
— Number of short-stroke keys	8	8
Expansions for operator control of the process		
• DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	8	8
Installation type/mounting		
Mounting type	Clamp terminals	clamp fastening with additional mounting clips
Mounting position	vertical	Horizontal, vertical
Rack mounting	No	No
Front mounting	Yes; Compatible with Extension Units dimensions	Yes; mounting clip - Torx T20 tighten to 0.2 Nm; enclosure - Torx T10 tighten to 0.2 Nm
Rail mounting	No	No
Wall mounting/direct mounting	No	No
Mounting in portrait format possible	Yes	Yes
Mounting in landscape format possible	Yes	Yes
maximum permissible angle of inclination without external ventilation	30°; To the front/rear	30°; To the front/rear
Number of slots for command devices and signaling units	0	0
Supply voltage		
Type of supply voltage	DC	DC
Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling	24 V; 24 V can be looped through connector, interrupted when pulled
permissible range, lower limit (DC)	20.4 V	20.4 V
permissible range, upper limit (DC)	28.8 V	28.8 V
Input current		
Current consumption (rated value)	0.3 A	0.3 A
Digital inputs		
Number of digital inputs	8; Max. 8 inputs and outputs (total)	8; Max. 8 inputs and outputs (total)
Input voltage		
• Rated value (DC)	24 V	24 V
Digital outputs		
Number of digital outputs	8; Max. 8 inputs and outputs (total)	8; Max. 8 inputs and outputs (total)
Short-circuit protection	Yes	Yes
Switching capacity of the outputs		
• with resistive load, max.	100 mA	100 mA
Output voltage		
• Rated value (DC)	24 V; Non-isolated	24 V; Non-isolated
Total current of the outputs		
• Current per channel, max.	100 mA	100 mA
• Current per group, max.	800 mA	800 mA
Interfaces		
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch	2; Incl. switch
Industrial Ethernet		
• Industrial Ethernet status LED	2; Per port	2; Per port
• Number of ports of the integrated switch	2; Per port	2; Per port

Protocols		
PROFINET	Yes; also 3rd party PLC	Yes; also 3rd party PLC
Article number	6AV3688-3AY36-0AX0	6AV2127-1AB00-0LX1
	SIMATIC HMI KP8 PN	SIMATIC HMI KP8 PN LX 6mm
Supports protocol for PROFINET IO	Yes	Yes
PROFINET CBA	No	No
IRT	Yes	Yes
PROFIsafe	No	No
PROFIBUS	No	No
EtherNet/IP	No	No
MPI	No	No
AS-Interface	No	No
EIB/KNX	No	No
Protocols (Ethernet)		
• TCP/IP	No	No
Redundancy mode		
Media redundancy		
— MRP	Yes	Yes
Further protocols		
• AS-Interface Safety at Work	No	No
• CAN	No	No
• Data-Highway	No	No
• DeviceNet	No	No
• DeviceNet Safety	No	No
• Foundation Fieldbus	No	No
• INTERBUS	No	No
• INTERBUS-Safety	No	No
• Local Operating Network	No	No
• MODBUS	No	No
• SafetyBUS p	No	No
• SERCOS	No	No
• SUCOnet	No	No
• other bus systems	No	No
Test commissioning functions		
Illuminant test	Yes; During switch on	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on	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	Yes; Group 1, measured at a distance of 10 m
• Limit class B, for use in residential areas	No	No
Degree and class of protection		
IP (at the front)	IP65	IP64
IP (rear)	IP20	IP20
NEMA (front)		
• Enclosure Type 4 at the front	No	No
• Enclosure Type 4x at the front	Yes; Incl. NEMA12	No
• Enclosure Type 12 at the front		No
Standards, approvals, certificates		
CE mark	Yes	Yes
CSA approval		No
UL approval		No
cULus	Yes	No
FM approval		No
RCM (formerly C-TICK)	Yes	No
KC approval	Yes	No
EAC (formerly Gost-R)		No
CCC		No; not necessary
Suitable for safety functions	No	No
Marine approval		No
Use in hazardous areas		
• ATEX Zone 2	Yes	No
• ATEX Zone 22	Yes	No
• cULus Class I Zone 1	No	No
• cULus Class I Zone 2, Division 2	Yes	No
• FM Class I Division 2	Yes	No
Marine approval		
• Germanischer Lloyd (GL)	No	No
• American Bureau of Shipping (ABS)	No	No
• Bureau Veritas (BV)	No	No
• Det Norske Veritas (DNV)	No	No
• Lloyds Register of Shipping (LRS)	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No
• Polski Rejestr Statkow (PRS)	No	No
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	0 °C
• max.	55 °C	60 °C
Operation (vertical installation)		
— For vertical installation, min.	0 °C	0 °C
— For vertical installation, max.	55 °C	60 °C
Operation (max. tilt angle)		
— At maximum tilt angle, min.	0 °C	0 °C
— At maximum tilt angle, max.	15 °C	20 °C

— At maximum tilt angle, max.	45 °C	60 °C
Operation (vertical installation, portrait format)		
Article number	6AV3688-3AY36-0AX0 SIMATIC HMI KP8 PN	6AV2127-1AB00-0LX1 SIMATIC HMI KP8 PN LX 6mm
— For vertical installation, min.	0 °C	0 °C
— For vertical installation, max.	55 °C	60 °C
Operation (max. tilt angle, portrait format)		
— At maximum tilt angle, min.	0 °C	0 °C
— At maximum tilt angle, max.	45 °C	60 °C
Ambient temperature during storage/transportation		
• min.	-20 °C	-20 °C
• max.	60 °C	70 °C
Relative humidity		
• Operation, max.	95 %; no condensation	95 %; no condensation
configuration / header		
Configuration software		
• STEP 7 Basic (TIA Portal)	Yes	Yes
• STEP 7 Professional (TIA Portal)	Yes	Yes
Functionality under WinCC (TIA Portal)		
Process coupling		
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes	Yes
• S7-200	No	No
• S7-300/400	Yes; STEP 7 or SIMATIC STEP 7 Basic V11 or higher	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	No
• WinAC	Yes	Yes
• SINUMERIK	No	No
• SIMOTION	No	No
• Allen Bradley (EtherNet/IP)	No	No
• Allen Bradley (DF1)	No	No
• Mitsubishi (MC TCP/IP)	No	No
• Mitsubishi (FX)	No	No
• OMRON (FINS TCP)	No	No
• OMRON (LINK/Multilink)	No	No
• Modicon (Modbus TCP/IP)	No	No
• Modicon (Modbus)	No	No
Mechanics/material		
Enclosure material (front)		Bayblend FR3010 enclosure, Autotex F150 front membrane
• Plastic	Yes	Yes; neutral enclosure, black RAL 9005
• Aluminum	No	No
• Stainless steel	No	No
Service life		
• Short-stroke keys (in switching cycles)	1 500 000	1 500 000
• LEDs (ON period)	100 %	100 %
Dimensions		
Width of the housing front	98 mm	40.7 mm
Height of housing front	155 mm	252.4 mm
Mounting cutout, width	67.7 mm; Max. thickness of mounting plate 2 - 6 mm	24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
Mounting cutout, height	129.7 mm	244 mm; tolerances +0.5 mm, not including connection plug (depending on connector type)
Overall depth	49 mm; Incl. angled SIMATIC Ethernet connector	68.15 mm; mounting plate thickness max. 1 ... 6 mm
Weights		
Weight (without packaging)	270 g	297 g
Weight (with packaging)		475 g; incl. 1x 12-pole connector and 6x mounting clips
Other		
Merchandise		Yes; KS28603
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

Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
General information	
Product type designation	KP8F PN
Control elements	
With parameterizable keys	Yes
Keyboard fonts	
• Membrane keyboard	
— user-definable label membrane keys	Yes
• Function keys	
— Number of function keys	8
• 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
Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
• Number of color modes for LED	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	8
Installation type/mounting	
Mounting type	Mounting clip
Mounting position	vertical
Rack mounting	No
Front mounting	Yes; Compatible with Extension Units dimensions
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
Digital inputs	
Number of digital inputs	8; total inputs and outputs max. 8 and 2x SIL 2 or 1x SIL 3
Input voltage	
• 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	Yes; 1x SIL 3 (two-channel) or 2x SIL 2 (single-channel) emergency stop sensors
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)	IP65

• LEDs (ON period)	100 %
Dimensions	
Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
Width of the housing front	98 mm
Height of housing front	155 mm
Mounting cutout, width	67.7 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129.7 mm
Overall depth	49 mm; Incl. angled SIMATIC Ethernet connector
Weights	
Weight (without packaging)	280 g
Article number	
	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
General information	
Product type designation	KP32F PN
Control elements	
With parameterizable keys	Yes
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)	8; Adjustable brightness
• Number of color modes for LED	5; red, green, blue, yellow, white
• Direct keys (keys as S7 input I/O)	32
Installation type/mounting	
Mounting type	Mounting clip
Mounting position	vertical
Rack mounting	No
Front mounting	Yes
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 looped through at connector, no interruption on pulling
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	1 A
Digital inputs	
Number of digital inputs	32; Total inputs and outputs max. 32 and 2x SIL 2 or 4x SIL 3
Input voltage	
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	16; Max. 32 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; incl. shared device, 3rd party PLC
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
IRT	Yes
PROFIsafe	Yes; 2x SIL 3 (two-channel) or 4x SIL 2 (single-channel) emergency stop sensors
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

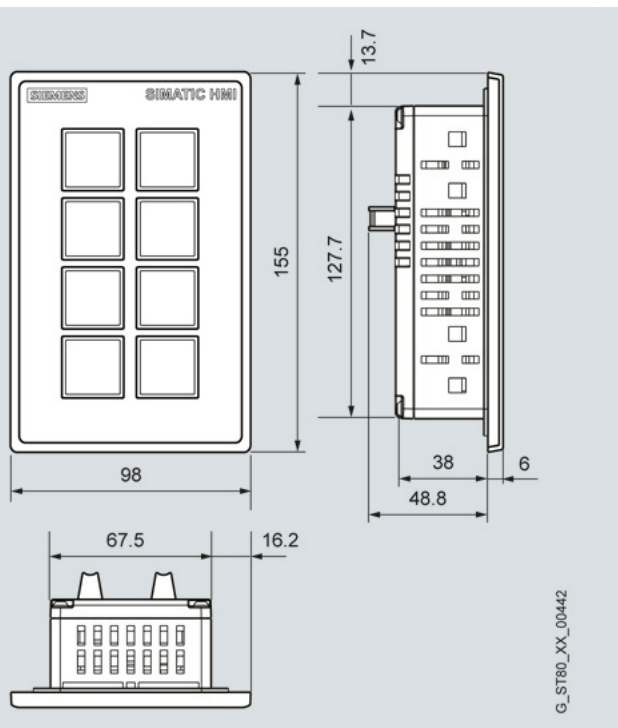
• Data-Highway	No
Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
• DeviceNet	No
• DeviceNet Safety	No
• Foundation Fieldbus	No
• INTERBUS	No
• INTERBUS-Safety	No
• Local Operating Network	No
• MODBUS	No
• SafetyBUS p	No
• SERCOS	No
• SUCOnet	No
• other bus systems	No
Test commissioning functions	
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)	IP65
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4 at the front	No
• Enclosure Type 4x at the front	Yes; Incl. NEMA12
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
CCC	No; not necessary
Suitable for safety functions	Yes
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	113 kg
— global warming potential, (during production) [CO2 eq]	38.5 kg
— global warming potential, (during operation) [CO2 eq]	82.3 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-8.27 kg
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)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	95 %; no condensation
configuration / header	
Configuration software	
• STEP 7 Basic (TIA Portal)	Yes

• STEP 7 Professional (TIA Portal)	Yes
Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
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), without F-CPU STEP 7 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)	
• Plastic	No
• Aluminum	Yes
• Stainless steel	No
Service life	
• Short-stroke keys (in switching cycles)	1 500 000
• LEDs (ON period)	100 %
Dimensions	
Width of the housing front	295 mm
Height of housing front	155 mm
Mounting cutout, width	277 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	137 mm
Overall depth	37 mm; Incl. angled SIMATIC Ethernet connector
Weights	
Weight (without packaging)	1 220 g
Article number	6AV3688-3XY38-3AX0 KP8 Design blank Front
General information	
Product type designation	Empty front design
Installation type/mounting	
Mounting type	Clamp terminals
Mounting position	any
Rack mounting	No
Front mounting	Yes; Compatible with Extension Units dimensions
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	180°; To the front/rear
Number of slots for command devices and signaling units	5; Max. 5 possible
Supply voltage	
Design of the power supply	external
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of USB interfaces	0
Protocols	
PROFINET	No
PROFIsafe	No
Redundancy mode	
Media redundancy	
— MRP	No
Test commissioning functions	
Key and signal lamp test	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4 at the front	No
• Enclosure Type 4x at the front	No
Standards, approvals, certificates	
CE mark	Yes
cULus	No
RCM (formerly C-TICK)	No
KC approval	No
Suitable for safety functions	Yes; e.g. installation of emergency stop
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	
Article number	6AV3688-3XY38-3AX0 KP8 Design blank Front
• 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)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	45 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	95 %
Mechanics/material	
Enclosure material (front)	
• Plastic	No
• Aluminum	Yes
• Stainless steel	No
Dimensions	
Width	98 mm
Height	155 mm
Mounting cutout, width	68 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129 mm
Overall depth	49 mm
Weights	
Weight (without packaging)	240 g
Other	
Merchandise	Yes
Manufacturer name	SIEMENS AG
Manufacturer's address	Gleiwitzerstraße 555, 90475 Nuremberg, Germany

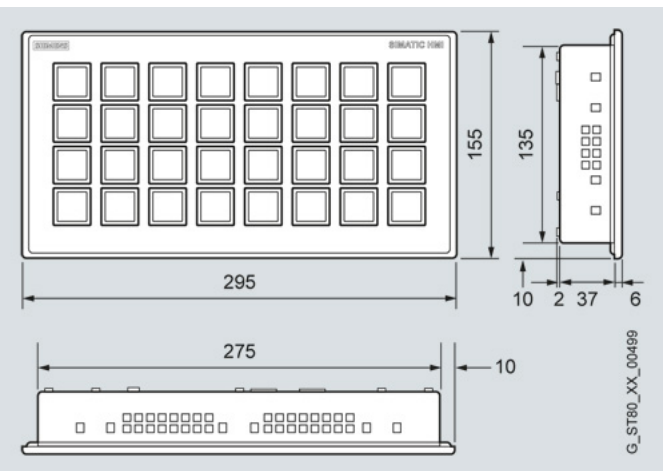
Dimensional drawings

All dimensions in mm. For installation cutout, see technical specifications.



G_ST80_XX_00442

SIMATIC HMI Key Panel KP8; installation dimensions also valid for blank front design



G_ST80_XX_00499
SIMATIC HMI Key Panel KP32F

More information

More information is available on the internet at [this link](#)

For accessories see "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

Note:

Do you need a specific modification or option for the products described here? Then look up "Customized Automation", where you will find information about additional sector-specific products that can be ordered as well as about options for customer-specific modification and adaptation.