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## 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/DO pins, 24 V DC can be looped through, parameterizable as of STEP 7 V5.5 -- product expected to be available as of June 2026

| | |
|---|---|
| **General information** | |
| Product type designation | Key Panel KP8 PN LX (1 ... 6 mm) |
| **Control elements** | |
| With parameterizable keys | Yes |
| Keyboard | |
| ● 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 |
| **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 |
| **Digital inputs** | |
| Number of digital inputs | 8; Max. 8 inputs and outputs (total) |
| Input voltage | |
| ● Rated value (DC) | 24 V |


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| **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) | IP64 |
| IP (rear) | IP20 |
| NEMA (front) | |
| ● Enclosure Type 4 at the front | No |


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|---|---|
| ● 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, max. | 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, max. | 60 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 70 °C |
| Relative humidity | |
| ● Operation, max. | 95 %; no condensation |
| **Configuration** | |
| 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 |
| ● S7-300/400 | Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or |


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|---|---|
| | 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 (Host Link) | No |
| ● Modicon (Modbus TCP/IP) | No |
| ● Modicon (Modbus RTU) | 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) |
| mounting 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; 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 |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-33-02-04 |
| eClass | 14 | 27-33-02-04 |
| eClass | 12 | 27-33-02-04 |
| eClass | 9.1 | 27-33-02-04 |
| eClass | 9 | 27-33-02-04 |
| eClass | 8 | 27-24-23-05 |
| eClass | 7.1 | 27-24-23-05 |
| eClass | 6 | 27-24-23-05 |
| ETIM | 10 | EC001415 |
| ETIM | 9 | EC001415 |
| ETIM | 8 | EC001415 |
| ETIM | 7 | EC001415 |

**Approvals / Certificates**

| General Product Approval | Environment |
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Environmental Confirmations

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