EKI-2705G-1GPI
EKI-2705E-1GPI

4GE PoE + 1GE Unmanaged Industrial Switch

4FE PoE + 1GE Unmanaged Industrial Switch

EKI-2705G-1GPI ▲   EKI-2705E-1GPI ▲

5 Year Warranty   CE   FCC   RoHS COMPLIANT 2002/95/EC

Features

- Supports 10/100/1000Mbps auto negotiation (EKI-2705G)
- Supports jumbo frame transmission up to 9k bytes
- DIN-rail with IP30 metal mechanism
- Redundant 24 ~ 48 V_{DC} power input
- 4 x IEEE 802.3 af/at PoE /PoE+ ports & 1 x Giga (Fast Ethernet) Copper ports

Introduction

The EKI-2705 series supports 24 ~ 48V_{DC} redundant power input and is secured with a double protection mechanism: power polarity reverse protection and an overload current fuse. The EKI-2705 series supports up to 4-port IEEE 802.3 af/at PoE /PoE+ ports. Each port of EKI-2705 has two LED indicators to show the link status transmission speed. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify, administrators. Engineers can simply verify the hardware status by checking the LED to make troubleshooting easily and fast. EKI-2705 comes with a compact metal housing rated at IP30 to protect against dusty industrial environments.

Specifications

Communications

- **Standard** — IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3z
- **LAN** — EKI-2705G-1GPI: 5 x 10/100/1000Mbps (RJ-45)
  EKI-2705E-1GPI: 4 x 10/100Mbps (RJ-45) +
  1 x 10/100/1000Mbps(RJ-45)
- **Transmission Distance** — Ethernet: Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)
- **Transmission Speed** — Gigabit Copper: 10/100/(1000) Mbps, Auto-Negotiation

Interface

- **Connectors** — 5 x RJ-45
  6-pin removable screw terminal (power & relay)
- **LED Indicators** — P1, P2, P-Fail
  Link / Speed / Activity/ POE

Power

- **Power Consumption** — Max. 2 W
- **Power Input** — 24 ~ 48 V_{DC}
- **Input current** — 1.92A @ 48 V_{DC}
  4.12A @ 24 V_{DC}
- **Fault Output** — 1 Relay Output, 1 A @ 24 V_{DC}
- **Power Budget** — 60W @ 75°C
  90W @ 60°C

Mechanism

- **Dimensions (W x H x D)** — 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")
- **Enclosure** — IP30, metal shell with solid mounting kits
- **Mounting** — DIN-rail, Wall

Protection

- **Power Reverse** — Present
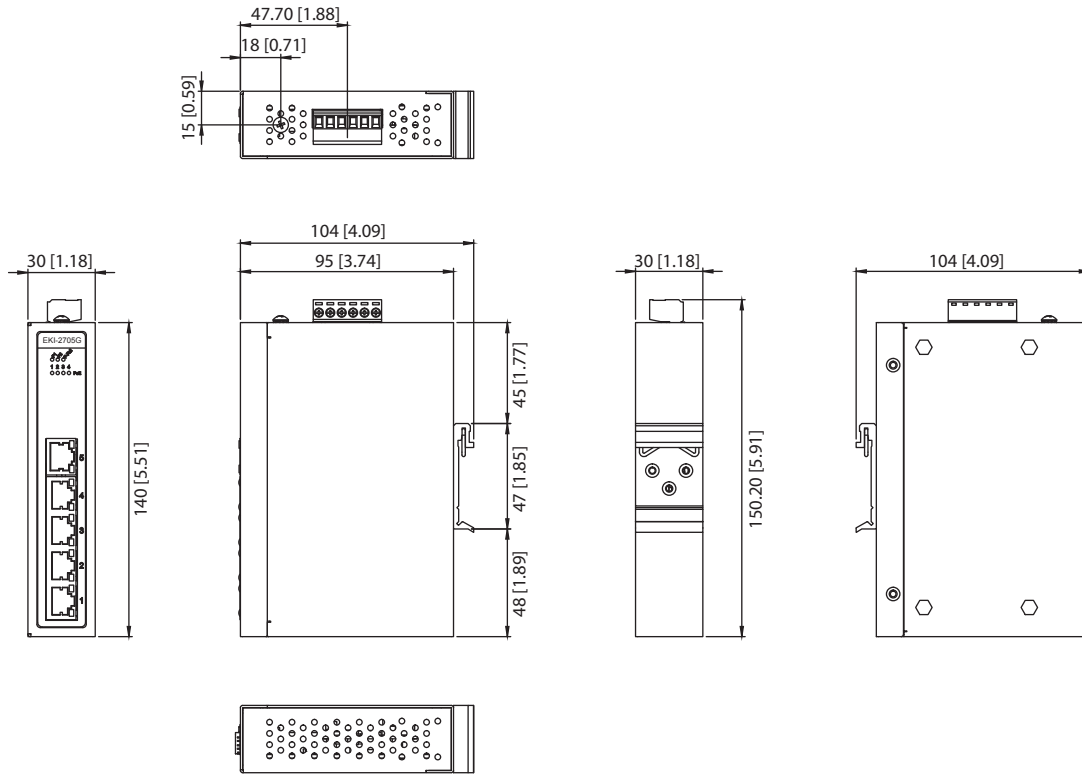- **Overload current** — Present

Environment

- **Operating Temperature** — -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** — -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** — 10 ~ 95% (non-condensing)
- **Storage Humidity** — 10 ~ 95% (non-condensing)
- **MTBF** — 2,399,979 hours

Certification

- **Safety** — UL 62368, e-Mark
- **EMI** — CE, FCC Class A
- **EMS** — EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
- **Shock** — IEC 60068-2-27
- **Freefall** — IEC 60068-2-32
- **Vibration** — IEC 60068-2-6
- **Patent** — http://www.advantech.com/legal/patent

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All product specifications are subject to change without notice.   Last updated: 19-Jan-2024

Dimensions

Unit: mm [inch]

47.70 [1.88]
18 [0.71]
15 [0.59]

104 [4.09]
95 [3.74]
30 [1.18]
EKI-2705G
140 [5.51]
45 [1.77]
47 [1.85]
48 [1.89]

30 [1.18]
150.20 [5.91]
104 [4.09]

Ordering Information

- **EKI-2705G-1GPI-A**   4GE PoE + 1GE Unmanaged Industrial Switch w/Wide temp.
- **EKI-2705E-1GPI-A**   4FE PoE + 1GE Unmanaged Industrial Switch w/Wide temp.