EKI-2725/I

5-port Gigabit Unmanaged Industrial Ethernet Switch

Features

- Provides 5 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000 Mbps Auto Negotiation
- Supports jumbo frame transmission up to 9kbytes
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 VDC power input and P-Fail Relay
- Provides broadcast storm protection

Introduction

The EKI-2725 supports Gigabit Ethernet. The power is a +12 ~ 48 V_{DC} redundant input design, and is secured with a double protection mechanism: Power Polarity Reverse Protect and an Overload Current Resetable Fuse. The former tolerates reverse power wiring while the later secures the system from overload currents. As the power supply turns normal, EKI-2725 will automatically get back to normal operation state. Each port of EKI-2725 has 2 LED's to show the link status transmission speed and collision status. 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, and have troubleshooting easy and quick. EKI-2725 comes with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

- **Standard**   IEEE 802.3, 802.3u, 802.3x, 802.3ab
- **LAN**   10/100/1000Base-T(X)
- **Transmission Distance**   Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)
- **Transmission Speed**   Up to 1000 Mbps

Interface

- **Connectors**   5 x RJ45 (EKI-2725)
  6-pin removable screw terminal (power & relay)
- **LED Indicators**   P1, P2, P-Fail
  10/100/1000T (X): Link/Activity, Duplex/Collision

Power

- **Power Consumption**   2.5W
- **Power Input**   12 ~ 48 V_{DC}, redundant dual inputs
- **Fault Output**   1 Relay Output

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
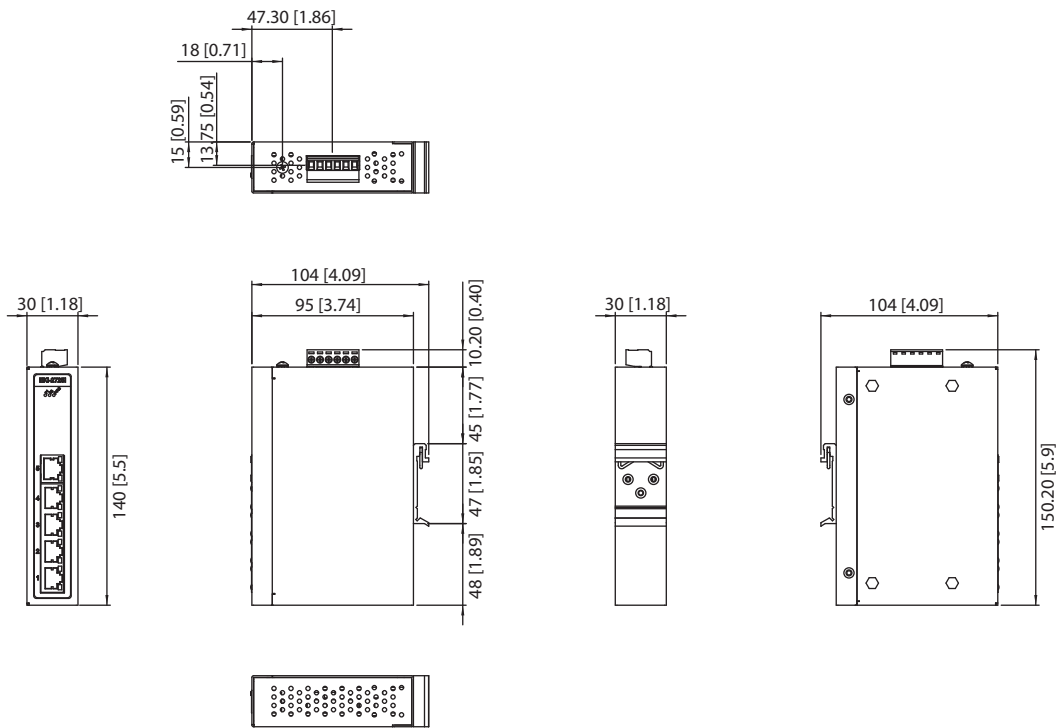
Environment

- **Operating Temperature**   -10 ~ 60°C (14 ~ 140°F)
  -40 ~ 75°C (-40 ~ 167°F) / (I model)
- **Storage Temperature**   -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity**   10 ~ 95% (non-condensing)
- **Storage Humidity**   10 ~ 95% (non-condensing)
- **MTBF**   TBD

Certifications

- **Safety**   UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMI**   FCC Part 15 Subpart B Class A, EN 55022 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

Dimensions

47.30 [1.86]
18 [0.71]
15 [0.59]
13.75 [0.54]

104 [4.09]
95 [3.74]
10.20 [0.40]
45 [1.77]
47 [1.85]
48 [1.89]
30 [1.18]
140 [5.5]

30 [1.18]

104 [4.09]
150.20 [5.9]

Ordering Information

- **EKI-2725-CE**   5-port Gigabit Unmanaged Switch
- **EKI-2725I-CE**   5-port Gigabit Unmanaged Switch w/wide temp