EKI-2728/I

8-port Gigabit Unmanaged Industrial Ethernet Switch

Features

- Provides 8 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000 Mbps Auto Negotiation
- Supports jumbo frame transmission up to 10kbytes
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 V_{DC} power input and P-Fail Relay

Introduction

The EKI-2728 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 Fuse. The former tolerates reverse power wiring while the later secures the system from overload currents. Each port of EKI-2728 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-2728 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**   8 x RJ45
  6-pin removable screw terminal (power & relay)
- **LED Indicators**   P1, P2, P-Fail
  10/100/1000T (X): Link/Activity, Duplex/Collision

Power

- **Power Consumption**   5.8W
- **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
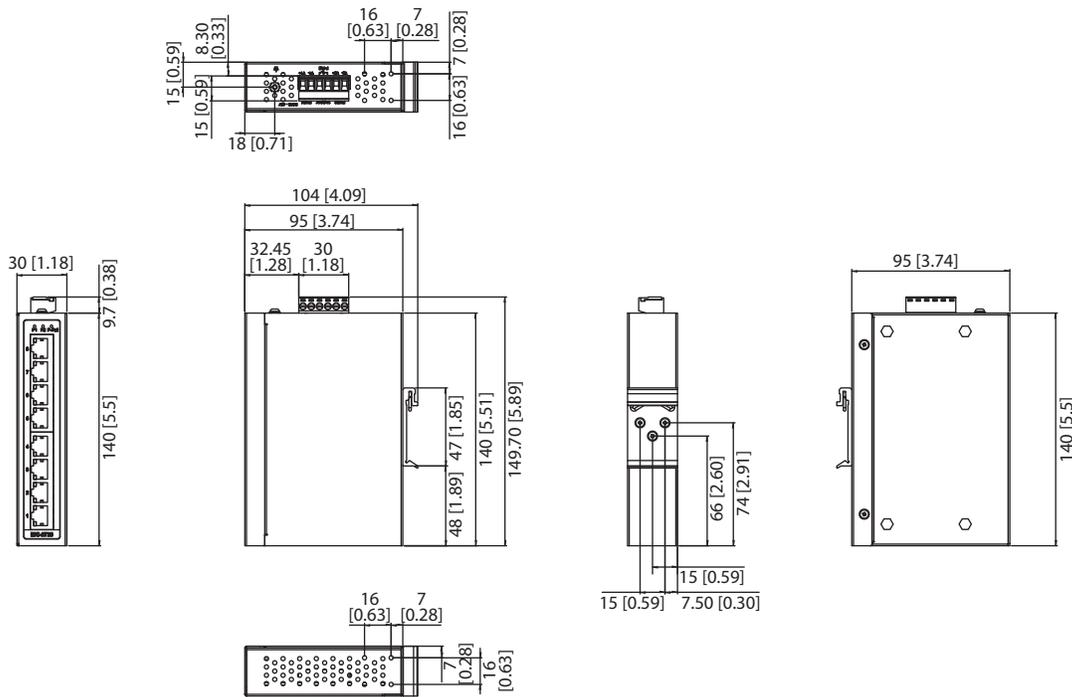- **Overload current**   Present

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**   1,988,083 hours

Certifications

- **Safety**   UL 62368
- **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

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Dimensions

Unit: mm [inch]

Panel Cut-out Dimensions: 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")

Ordering Information

- **EKI-2728-CE**   8-port Gigabit Unmanaged Switch
- **EKI-2728I-CE**   8-port Gigabit Unmanaged Switch w/wide temp