EKI-2728NI

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 9kbytes
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 VDC power input and ALM Relay
- Enhanced traffic prioritization for automation protocols
- Supports PROFINET Conformance-Class A

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 easily and quickly. EKI-2728 comes with compact metal housing that rates IP30 to help against from dusty industrial environments. To enhance traffic prioritization for automation protocol with PROFINET PTCP filter that ensure a reliable communication on PROFINET networds.

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, ALM
  10/100/1000T (X): Link/Activity, Duplex/Collision

Power

- **Power Consumption** — Max. 3.9W
- **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** — -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** — 4,764,152 hours

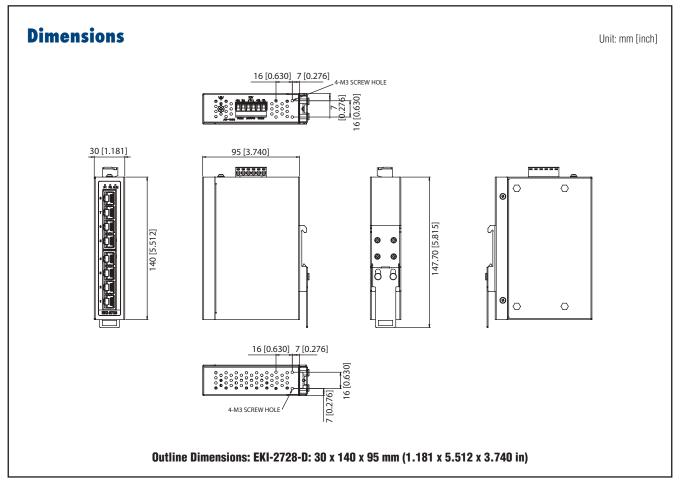### Certifications

- **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

Dimensions

Unit: mm [inch]

16 [0.630]   7 [0.276]   4-M3 SCREW HOLE

7 [0.276]   16 [0.630]

30 [1.181]   95 [3.740]

140 [5.512]   147.70 [5.815]

16 [0.630]   7 [0.276]

16 [0.630]   7 [0.276]

4-M3 SCREW HOLE

Outline Dimensions: EKI-2728-D: 30 x 140 x 95 mm (1.181 x 5.512 x 3.740 in)

Ordering Information

▪ **EKI-2728NI-A**   8-port Gigabit Unmanaged Switch w/wide temp