

# EKI-2725F/FI

## 4GE + 1SFP port Gigabit Unmanaged Industrial Ethernet Switch



### Features

- Provides 4 GE+ 1 SFP ports with auto MDI/MDI-X
- Supports 10/100/1000 Mbps auto negotiation
- Supports jumbo frame transmission up to 9kb
- Provides slim size, DIN-rail with IP30 metal mechanism
- Supports redundant 12 ~ 48 V<sub>DC</sub> power input and P-Fail relay
- Provides broadcast storm protection

### Introduction

The EKI-2725F supports Gigabit Ethernet. The power rating is +12 ~ 48 V<sub>DC</sub> redundant input design, and is secured with a double protection mechanism: Power Polarity Reverse Protection and an Overload Current Fuse. The former tolerates reverse power wiring while the later secures the system from overload currents. Each port of EKI-2725F 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, which makes troubleshooting quick and easy. EKI-2725F comes with 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** 4 x 10/100/1000Mbps(RJ-45)+  
1 x 100/1000Mbps(SFP)
- **Transmission Distance** Ethernet: Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)  
SFP: Up to 110 km (depends on SFP)
- **Transmission Speed** Up to 1000 Mbps

#### Interface

- **Connectors** 4 x RJ45 + 1 x SFP  
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail  
10/100/1000T (X): Link/Activity, Duplex/Collision  
SFP: LNK/ACT

#### Power

- **Power Consumption** 2.5W
- **Power Input** 12 ~ 48 V<sub>DC</sub>, 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

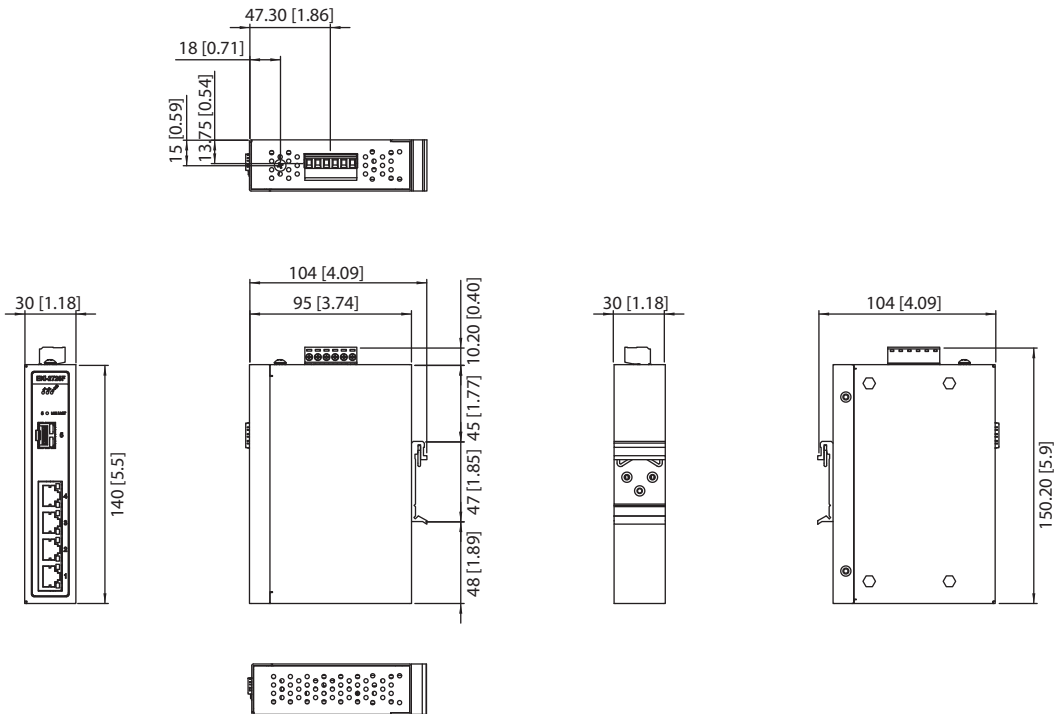
- **Operating Temperature** -10 ~ 60 °C (14 ~ 140 °F)  
-40 ~ 75 °C (-40 ~ 167 °F) / (I model)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 1,868,330 hours

#### Certifications

- **Safety** UL 60950
- **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]



## Ordering Information

- EKI-2725F-AE 4GE + 1 SFP unmanaged switch
- EKI-2725FI-AE 4GE + 1 SFP unmanaged switch w/wide temp