EKI-5729F/FI 8-Port+2 SFP Gigabit Ethernet ProView Switch



Features

- Communicates with SCADA software via Modbus/TCP
- Communicates with NMS (Networking management system) via SNMP
- Port-based QoS for deterministic data transmission
- Wide operating temperature range of -40 ~ 75°C (EKI-5729FI only)
- Wide range power input of $12 \sim 48 \text{ V}_{DC}$ (8.4 ~ 52.8 V_{DC})
- EMS Level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy-Efficient Ethernet
- Jumbo frame support (up to 9,216 Bytes)
- Supports redundant 12 ~ 48 V_{DC} power input and P-Fail relay
- Loop detection



Introduction

The EKI-5729F and EKI-5729FI are the world's first convergence switches for process control and IT networking the undergreener. This line of switches use Modbus/TCP to communicate with SCADA software and SNMP to communicate with NMS simultaneously, thereby enabling full read con. on any devices for control engineers and IT personnel. They come with the port-based QoS for deterministic data transmission, allowing specific ports to prioritize traffic while geace in less important data via the remaining ports. The series use the highest quality components and has a wide operating temperature range of -40 ~ 75°C (EKI-5729FI only). Jorg vith EMS Level 3 protection to protect against electromagnetic interference.

Specifications

Communications

Standard IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3c7, 802.3ab 10/100/1000BASE-TX, optional 100PASE-FX LAN

1000BASE-SX/LX/LHX/XD/ZX/EZX ■ Transmission Distance Ethernet: UP to 100 m (4-wire Cat Fo Cat.6 RJ-45

cable suggested for Gigabit port)
SFP: UP to 110 km (dept ids o) SFP)

Ethernet: 10/100/10 Mbp. Auto-Negotiation Transmission Speed

Gigabit Copper: 10/100,/1000 Mbps, Auto-Negotiation

Gigabit Fiber: 61 to 1000 Mbps

Interface

Connectors 8 x RJ45 2 x SFP ports

6-pin removable screw terminal (power & relay)

P1. P2, P-Fail, Loop detection LED Indicators 10/100/1000T(X): Link/Activity, Speed

SFP: Link/Activity

Switch Properties

 MAC Table Size Packet Buffer Size 4.1M bit Switching Capacity 20 Gbps Jumbo Frame 9216 bytes

Power

Power Consumption

 Power Input $12 \sim 48 V_{DC} (8.4 \sim 52.8 V_{DC})$, redundant dual inputs

 Fault Output 1 Relay Output

Mechanism

Dimensions (W x H x D) 43 x 120 x 84 mm

 Enclosure IP30, metal shell with solid mounting kits

 Mounting DIN-Rail, Wall

Protection

Reverse Polarity Present Overload Current Present

Environment

■ **Operating Temperature** EKI-5729F: -10 ~ 60°C (14 ~ 140°F)

EKI-5729FI: -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 3,858,286 hours

Certification

IEC/EN 60950-1, UL508, Class 1 Division 2, IECEx, Safety

ATEX, e-Mark **EMC** CE, FCC, e-Mark

EMI EN 55011/55022 Class A, EN 61000-6-4, FCC Part 15

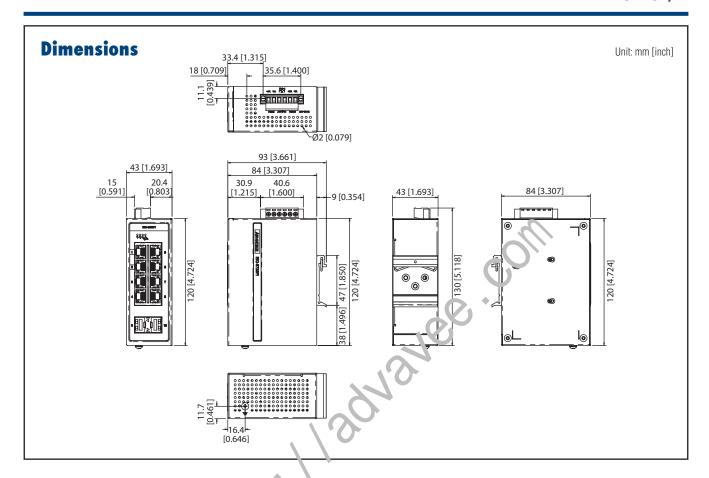
Subpart B Class A

EMS EN 61000-4-2 (Level 3)

EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3)

Shock IEC 60068-2-27

Freefall IEC 60068-2-32 Vibration IEC 60068-2-6



Ordering Information

■ EKI-5729F 8-port+2 SFP Gigabit Ethernot rroVi w Switch

8-port+2 SFP Gigabit Eth. rnet | roView Switch with Wide Operating Temp rature range EKI-5729FI