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
- -40 ~ 75°C operating temperature range (EKI-5729FI only)
- 12 ~ 48 V_{DC} (8.4 to 52.8 V_{DC}) wide-range power input
- · EMS level 3 protection for extreme outdoor environments
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- 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/FI are the world's first convergence switches for process control and IT networking management. This series uses Modbus/TCP to communicate with the SCADA software and SNMP to communicate with the NMS (Networking Management System) at the same time, thereby allowing full read control over the devices either for control engineers or for IT. The devices come with the Port-based QoS for deterministic data transmission allows the priority ports to prioritize the traffic coming over those ports and delay the less immediately necessary data over the remaining ports. EKI-5729F/FI switches use the highest quality components, to enable the range to operate in temperatures of between -40 and 75°C along with EMS Level 3 protection to repel electromagnetic interface for industrial resistance.

Mechanism

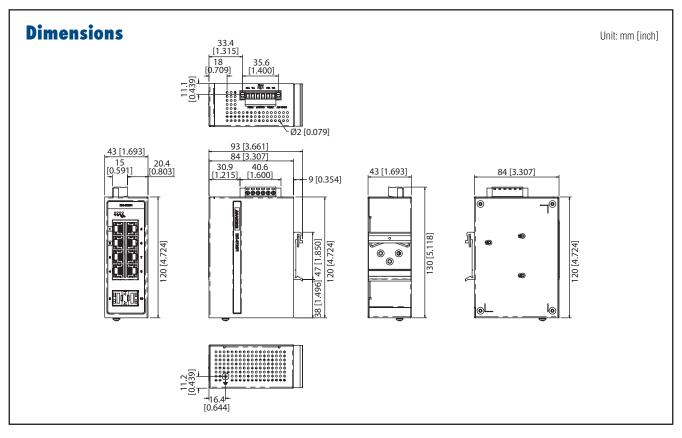
Specifications

Communications

Gommunications		Mechanism	
 Standard LAN Transmission Distance 	IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab 10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6 RJ-45	 Dimensions (W x H x D) Enclosure Mounting) 43 x 120 x 84 mm IP30, metal shell with solid mounting kits DIN-Rail, Wall
 Transmission Distance Transmission Speed 	cable suggested for Gigabit port) SFP: UP to 110 km (depends on SFP) Ethernet: 10/100/1000 Mbps Auto-Negotiation Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: UP to 1000 Mbps	Protection Reverse Polarity Overload Current Environment	Present Present
Interface		 Operating Temperature 	EKI-5729F: -10~60°C (14~140°F)
 Connectors LED Indicators 	8 x RJ45 2 x SFP ports 6-pin removable screw terminal (power & relay) P1, P2, P-Fail, Loop detection 10/100/1000T(X): Link/Activity, Speed	 Storage Temperature Operating Humidity Storage Humidity MTBF 	EKI-5729FI: -40~75°C (-40~167°F) -40 ~ 85°C (-40 ~ 185°F) 10 ~ 95% (non-condensing) 10 ~ 95% (non-condensing) 3,858,286 hours
	SFP: Link/Activity	Certification	
Switch Properties MAC Table Size Packet Buffer Size 	8K 4.1M bit	SafetyEMI	IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX FCC Part 15 Subpart B Class A, EN 55011/55022
 Switching Capacity Jumbo Frame 	20 Gbps 9216 bytes	• EMS	Class A EN 61000-4-2 (Level 3) EN 61000-4-3 (Level 3)
Power Power Consumption Power Input Fault Output	Max. 6.8 W 12~48 V_{DC} (8.4~52.8 V_{DC}), redundant dual inputs 1 Relay Output	 Shock Freefall Vibration 	EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 3) IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6

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EKI-5729F/FI



Ordering Information

- EKI-5729F
- 8-port+2 SFP Gigabit Ethernet ProView Switch
- EKI-5729FI
- 8-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range