

# **EKI-5729F/FI**

## 8-Port+2SFP Gigabit Ethernet ProView



#### **Features**

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



#### **Introduction**

The EKI-5729F and EKI-5729FI are the world's first convergence switches for process control and IT networking management. This line of switches use Modbus/TCP to communicate with SCADA software and SNMP to communicate with NMS simultaneously, thereby enabling full read control over 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 delaying 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) along with EMS Level 3 protection to protect against electromagnetic interference.

### **Specifications**

Communications		
3 Standard	IEEE 802.3, 802.3u, 802.3x, 8	02.1p, 802.3az, 802.3ab
3	LAN 10/100/100	0BASE-TX,
	optional 100BASE-FX, 1000E	BASE-
	SX/LX/LHX/XD/ZX/EZX	
Transmission Distance Ethernet: UP to 100 m (4-wire Cat.5e, Cat.6		
RJ-45		
	cable suggested for Gigab	
	SFP: UP to 110 km (depends	on SFP)
3	Transmission Speed	Ethernet:
10/100/1000 Mbps Auto-Negotiation		
	Gigabit Copper: 10/100/1000	Mbps, Auto-Negotiation
	Gigabit Fiber: UP to 1000	Mbps

Interface

3	Connectors 8 x RJ45
	2 x SFP ports
	6-pin removable screw terminal (power & relay
3	LED Indicators P1, P2, P-Fail, Loop detection
	10/100/1000T(X): Link/Activity, Speed
	SFP: Link/Activity

**Switch Properties** 

3	MAC Table Size	8K
3	Packet Buffer Size	4.1M bit
3	Switching Capacity	20 Gbps
3	Jumbo Frame 9216 bytes	3

**Power** 

Max. 6.8 W 3 **Power Consumption Power Input**  $12 \sim 48 \, V_{DC} (8.4 \sim 52.8 \, V_{DC}),$ 3 redundant dual inputs Fault Output 1 Relay Output

#### Mechanism

3	Dimensions (W x H x D) 43 x	120 x 84 mm
3	Enclosure	IP30, metal shell with solid

mounting kits 3 Mounting DIN-Rail, Wall

#### **Protection**

3	Reverse Polarity	Present
3	Overload Current	Present

#### **Environment**

③ Op	Operating Temperature EKI-5729F: -10 ~ 60°C (14 ~ 140°F)		
	EKI-5729FI: -40 ~ 75°C (-	EKI-5729FI: -40 ~ 75°C (-40 ~ 167°F)	
3	Storage Temperature	-40 ~ 85°C (-40 ~	
185°F)		,	
3	Operating Humidity	10 ~ 95% (non-	

condensing) Storage Humidity 10 ~ 95% (noncondensing)

**MTBF** 3,858,286 hours

#### Certification

3		Safety	IEC/EN 60950-1, UL508, Class 1
		Division 2, IECEx	, ATEX, e-Mark
3		EMC	CE, FCC, e-Mark
3	EMI	EN55011/55022 Class A, EN61000-6-4, FCC Part 15	
		Subpart B Class	; A
3	EMS	EN 61000-4-2 (Le	evel 3)
		EN 61000-4-3 (L	evel 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) IEC 60068-2-27

3 Shock

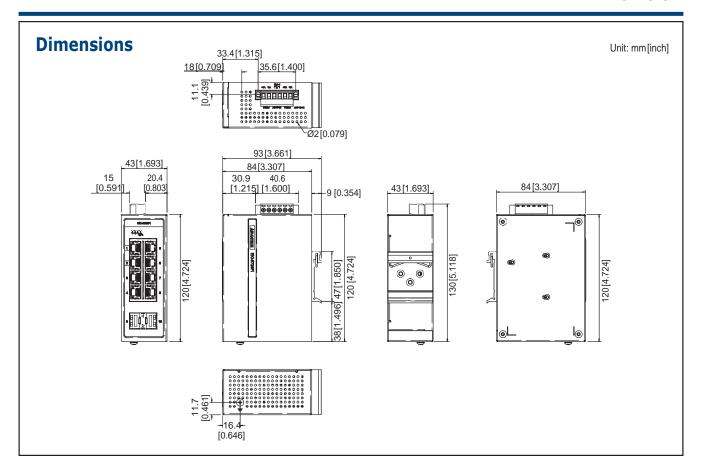
(3) Freefall IEC 60068-2-32 3 Vibration IEC 60068-2-6





All product specifications are subject to change without notice.

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## **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

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