

**KIEN1005**

5 Port Unmanaged Industrial Ethernet Switch



DNV, CE, FCC, RoHS, TB Certification,  
Chinese State Grid Certification

**Overview**

The KIEN1005 simple industrial Ethernet DIN-Rail switch is specially designed for industrial applications. It offers 5 fast Ethernet ports. With the plug-and-play feature, it can be started up quickly.

**Features**

- Supports 4 10/100Base-T(X) Rj45 ports and the 5th port is for copper or fiber, supporting QoS
- Backplane switching capacity is 1G
- Broadcast storm control
- Complies with EMC industrial level 4 regulated in IEC61850-3 standard
- Abundant power supply options
- Aluminum case, fanless design
- Operating temperature: -40 to 85°C (-40 to 185°F)
- DIN-Rail installation
- IP40 protection class

**Technical Specifications****Standard**

IEEE802.3  
IEEE802.3u  
IEEE802.3x  
IEEE802.1p  
Store and forward switching mode

**Network**

Chain and star network topology

**Interface**

100M Fiber Ports: 1 x 100Base-FX port, SM/MM, FC/SC/ST  
10/100M Copper Ports: 4 or 5 x 10/100Base-T(X) ports, RJ45  
LED Indicators: PWR, LINK/ACT, 10M/100M

**Cable**

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)  
Multi Mode Fiber: 1310nm, 0-5km  
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

**Power Requirements**

Power input: 24VDC (9-36VDC), 110VAC/220VAC (100-240VAC),  
single power input  
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block  
Power consumption: <3.5W

**Physical Characteristics**

Casing: Aluminum case (fanless)  
Protection class: IP40  
Installation: DIN-Rail or wall mounting  
Dimensions(WxHxD): 36.5x120x90 mm (1.44x4.72x3.54 in)  
Weight: 0.3kg (0.661 pound)

**Environmental Limits**

Operating Temperature: -40 to 85°C (-40 to 185°F)  
Storage Temperature: -40 to 85°C (-40 to 185°F)  
Ambient Relative Humidity: 0 to 95% (non-condensing)

**Approvals**

IEC61000-4-2 (ESD): ±8KV contact discharge, ±15KV air discharge  
IEC61000-4-3 (RS): 10V/M (80-1000MHz)  
IEC61000-4-4 (EFT): ±4KV power line, ±2KV data line  
IEC61000-4-5 (Surge): power line ±4KV CM/ ±2KV DM, data line ±2KV  
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)  
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s  
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM  
IEC61000-4-10 (Damped oscillatory): 30A/m  
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s  
FCC CFR47 Part 15/EN55022: Class A&B  
IEC61000-6-2 (Industrial Standards), IEC61850-3 (Substations),  
IEEE1613 (Electric Power Substations), EN50121-4 (Railway Applications)

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**MTBF**

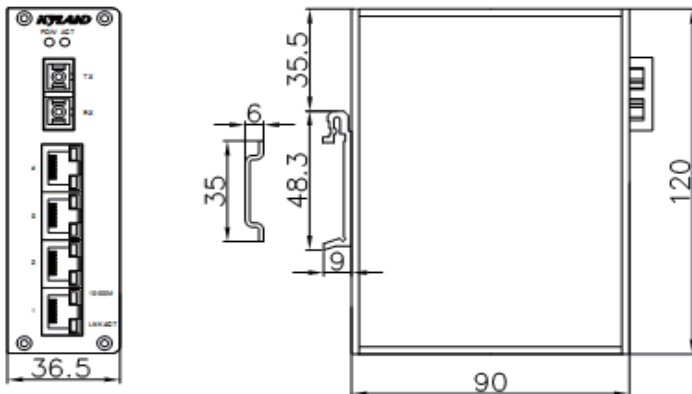
35 years

**Warranty**

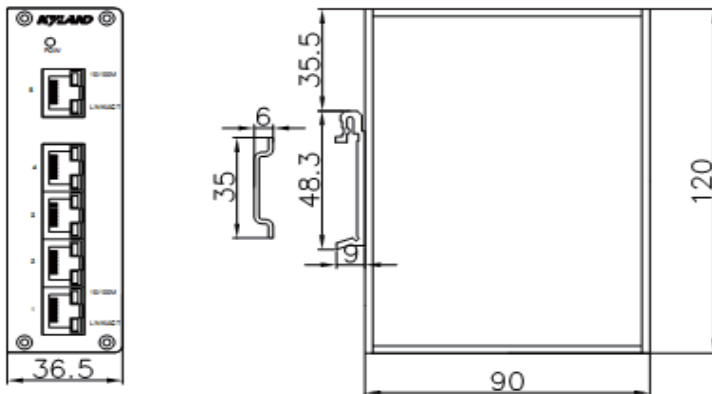
5 years

### Mechanical Drawing

KIEN1005-S(M)-4T



KIEN1005-5T



### Ordering Information

Model	Description
KIEN1005-5T-24VDC	Unmanaged Ethernet switch with 5 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-5T-220VAC	Unmanaged Ethernet switch with 5 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature
KIEN1005-S-4T-24VDC	Unmanaged Ethernet switch with 1 100Base-FX port, single mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-S-4T-220VAC	Unmanaged Ethernet switch with 1 100Base-FX port, single mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature
KIEN1005-M-4T-24VDC	Unmanaged Ethernet switch with 1 100Base-FX port, multi mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-M-4T-220VAC	Unmanaged Ethernet switch with 1 100Base-FX port, multi mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature

Power supply: 24VDC, 110VAC/220VAC, single power input

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