

HighTek HK-8608

Un-management Industrial Ethernet Switch

1.Overview:

The HK-8608 has 8 100Base-TX industrial Ethernet Switch. Models with an extended operating temperature range of $-40\sim 75^{\circ}\text{C}$ are also available. DIN-Rail installation; Housing use IP40 protection and interface LED indication can display socket state.

2.Product characteristic:

- High performance for industrial Ethernet Switch 10/100Base-TX adapt port(full/half duplex), auto connection with MDI/MDI-X.
- Broadcast Storm Protection.
- Rugged Design
- Ribbed heat-removal design; operation at -40°C to $+75^{\circ}\text{C}$.
- High performance protection class with aluminum case ,keep system working in danger and hard industrial environment.
- Easy DIN-Rail mounting.

3.Redundancy power supply:

When industrial power supply use DC9~36V or DC48V, it support redundant double power supply back-up;

When industrial power supply use AC/DC 110V or AC/DC220V, it has only one power supply input.

Reliable protection for EMC and against over current / over voltage

HK-86204 support relay output warning if power failure.

Relay can give output alarm in case of power supply failure or interruption of port link to notice or remind site engineers to make quick response for appropriate emergency maintenance.

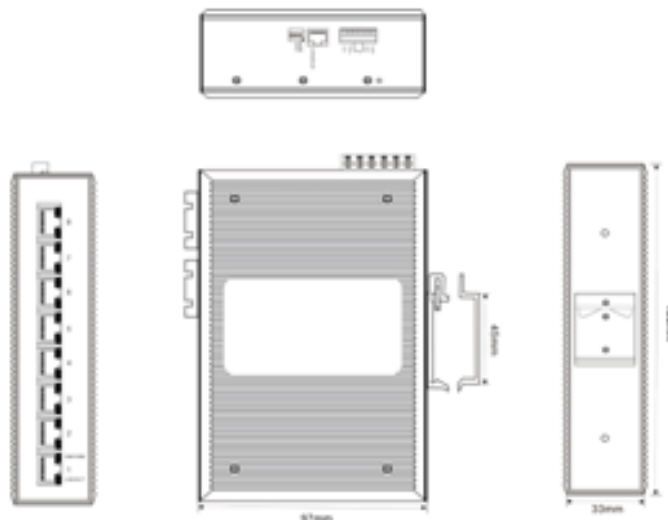
4.Product parameters:

Content	HK-8608
RJ45 ports	HK-8608: 8x 10Base-T/100Base-TX
System parameter	Standard: IEEE 802.3, IEEE 802.3u, IEEE 802.3x、 store-and-forward mode rate: 148810pps MAC address table size: 2K Converter method: store-and-forward mode Broad cast storm Protection
Electric port parameter	Physics socket: RJ45 Socket(shielded) RJ-45 socket: 10Base-T/100Base-TX,auto negotiation Socket standard: IEEE802.3 standard Communication distance: <100m
Power parameter	Voltage input : DC9~36V Input expend: <5W Voltage passing: Inside
Technical parameter	Dimensions (H×W×D): 144 mm ×33 mm ×97mm (not include DIN-Rail parts dimension) Installation method: DIN rail Weight: 0.8 kg
Working environment	Operation: -40℃~+75℃ Store: -45℃~+85℃ Ambient Relative Humidity: 0~95% (non-condensing)

5.Hardware construction

HK-8608 Front Panel

The HK-8608 has 8 100Base-TX industrial Ethernet Switch.

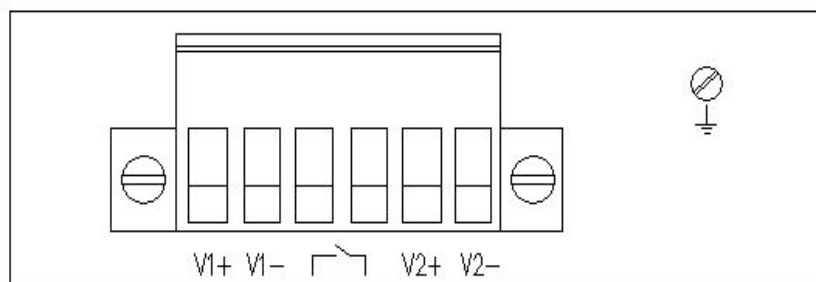


6.LED Indication lights

The front panel of HK-8608 industrial Ethernet Switch have LED contains several LED indicator, it can display socket state and easy to find & solve problem.

LED	Lights	Status
P1/P2	On	Power connect and work normal
	Off	Power not connect or work not normal
RUN	On	System work normal
	Off	System not work normal
LINK	On	100Base-FX have network connection
	Blinking	100Base-FX network active
	Off	100Base-FX network not connect
10M/100M(Yellow) Port rate	On	100Mbps is active(100Base-TX)
	Off	10Mbps is active(10Base-T)
Link/Act(Green)	On	Port have build active network connection
	Blinking	Port active
	On	Port do not network connection

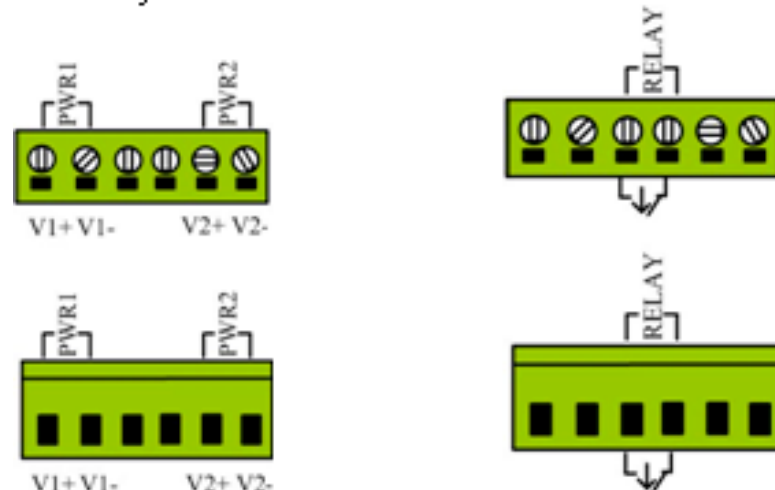
7. Power supply input PIN:



Side panel have one port could connect with ground directly.

The HK-8608 industrial Ethernet switch have standard DC9~36V power supply input. Also could choose DC48V input. When choose these two voltages, the Ethernet switch support dual power input , as spare use .

The HK-8608 industrial Ethernet switch could support AC/DC110V or AC/DC220V, if chose this two kind voltage input, input must from V1+ and V1-, V1+ connect with live line L, V1- connect with null line N. Please do not connect from V2+ and V2-.



8.Power Down Warning

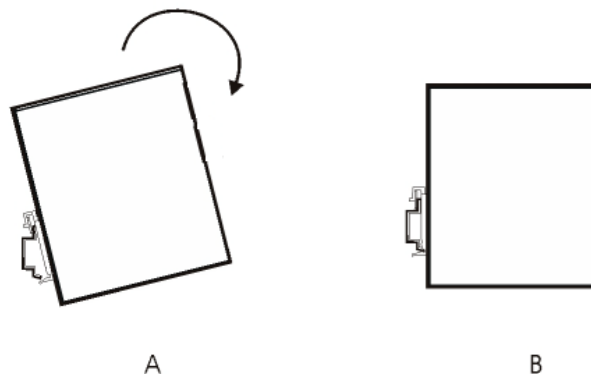
That Ethernet Switch supports the function of power down warning. When Ethernet Switch normally supply power, relay constant close contact open , when Ethernet switch do not have power input or input power not normal , relay contact will close .

9.Hardware Installation

DIN-Rail installation

That series equipment back panel have fixed well DIN rail-way connection seat. If need installation, please check DIN rail way condition. Main including 2 terms:

- Checking DIN-Rail is fixed firm, DIN-rail is installed on other equipment, whether there is enough space.
- Checking DIN-Rail whether suitable for power input.
- Please select the correct position. As below behind picture shows:
- Insert DIN-Rail into DIN-Rail slot and as schematics 4-1 A shows turning equipment
- As schematics 4-1 B shows, insert DIN-rail into DIN-Rail slot and confirm equipment installed on the DIN-rail.





Cable connection

After install Ethernet switch, please connect install cable. Cable installation please following behind notice:

Equipment port connection

This series provided 10Base-T/100Base-Tx RJ45 interface port, use the straight-through wire connect with terminal equipment, use cross wire connect network equipment.

Industrial Power supply

This series Ethernet switch supply DC9--36V power (or 48V DC power,220V AC power). After all other cables connected, you can connect the power.

10.Testing Guide

Self-examination

When the equipment on power, front panel all port indicate light will shine in all, shine in turn once, that mean all ports work normal .

RJ45 Port Testing

Choose any two RJ45 ports through directly network link connect with two testing PC network interface. and send Ping command each other, the two sides get right Ping message and don't loss package. At the same time the yellow light on the corresponding port should be normally on (PC network card work in 100M Status) or light off (PC network card work in 10M Status), corresponding port green light should be shining. That means the testing two RJ45 ports working well.