IES318 Series

DIN-Rail Mounting or Wall Mounting

8-port 100M Layer 2 Unmanaged Industrial Ethernet Switch

- Support 6 100M copper ports and 2 100M Ethernet copper or fiber ports optional
- Support relay alarm output
- Support 12~48VDC dual power supply input with anti-reverse protection and non-polarity
- Support -40~75℃ wide operating temperature range

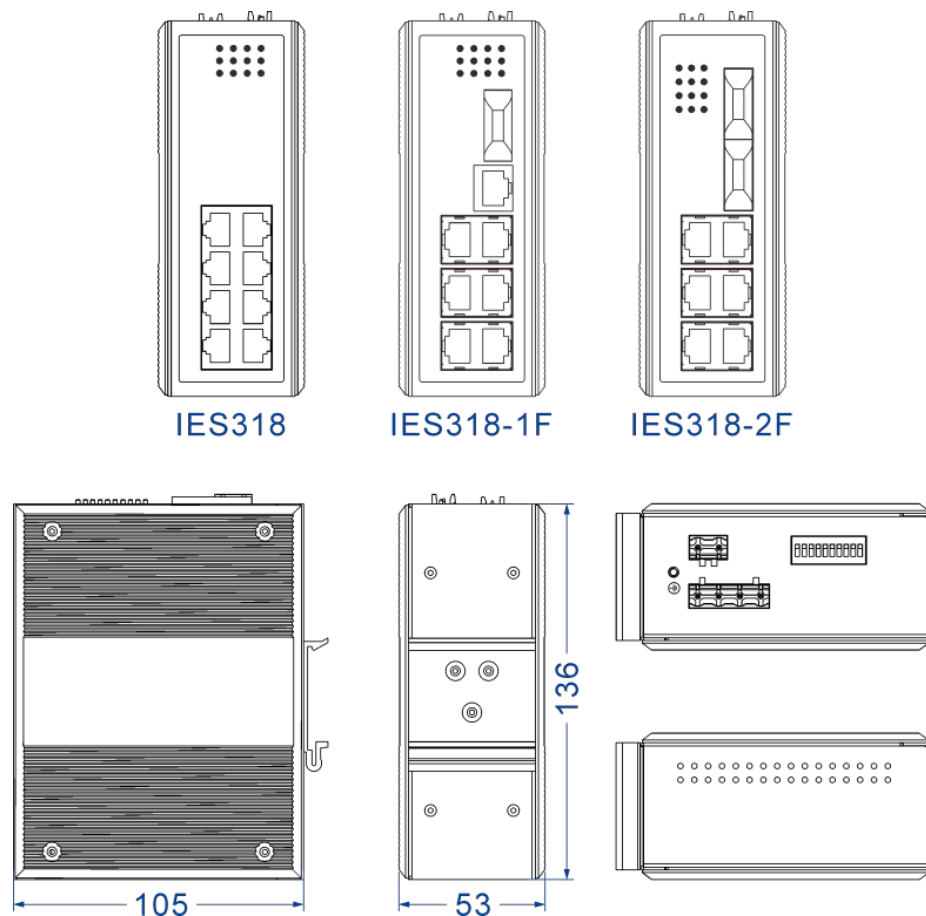CE   FCC   RoHS   c(UL)us LISTED   Industrial Grade   RPS

Introduction

IES318 series are 8-port 100M layer 2 unmanaged industrial Ethernet switches. This series include 3 types of products and provide 100M fiber and copper ports. They also support DIN-Rail mounting and wall mounting, which can meet the requirements of different application scenes.

The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. DIP switch can implement port alarm and power supply alarm. When power supply or port has link failure, ALARM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, railway transportation, smart city, safe city, new energy, intelligent manufacturing and other industrial fields.

Dimension

Unit:mm

IES318   IES318-1F   IES318-2F

105   53   136

Specification

Standard & Protocol	IEEE 802.3 for10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX
Interface	Copper port: 10/100Base-T(X)RJ45, Automatic Flow Control, Full/Half Duplex Mode Self-adaption, MDI/MDI-X Autotunning Fiber port: 100Base-FX，SC/ST/FC optional Alarm port: 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current carrying capacity 1A@24VDC or 0.5A@120VAC
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator
Switch Property	Transmission mode: store and forward MAC address: 2K Packet buffer size: 1Mbit Backplane bandwidth: 1.6G Switch time delay: <10μs
Power Requirement	12~48VDC, 4-pin 7.62mm pitch terminal blocks Dual power supply redundancy, non-polarity, reverse connection protection

Power Consumption	(see table below)

Model	No-load (@24VDC)	Full-load (@24VDC)
IES318	1.51W	2.23W
IES318-1F	1.75W	3.12W
IES318-2F	3.58W	4.25W

Environmental Limit	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5% ~ 95%（no condensation）
Physical Characteristic	Housing: IP30 protection, high-intensity corrugated metal Installation: DIN-Rail mounting or wall mounting Dimension (W x H x D): 53mm×136mm×105mm Weight: 900g
Industrial Standard	IEC 61000-4-2 (ESD), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-3 (RS), Level 3

	- Test level: 10V/m - Frequency range: 80MHz-1GHz IEC 61000-4-4 (EFT), Level 4 - Power supply; ±4kV - Ethernet port: ±2kV - Relay: ±4kV IEC 61000-4-5 (Surge), Level 4 - Power supply: common mode±4kV, differential mode±2kV - Ethernet port: ±4kV - Relay：common mode±4kV, differential mode±2kV IEC 61000-4-6 (CS), Level 3 - Test level: 10V - Frequency range: 150kHz-80MHz Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS, UL61010
Warranty	5 years

Ordering Information

Available Models	100M Fiber Port	100M Copper Port	Power Supply Range
IES318	—	8	12~48VDC dual power supply
IES318-1F	1	7	
IES318-2F	2	6	

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