

# IES-0008B

## 8 10/100TX Industrial Ethernet Unmanaged Switch ; 12V/24V input models

- Dual 9V~36VDC input(12V model) compliant with ISO 7637-2
- Dual 9V-60V input (24V model)
- Galvanic isolation protection (power input /Ethernet port to case ground; power input to Ethernet port)
- Relay alarm output for power fail and alarm
- E-marking certificate for vehicle application\* (-12V model)



### OVERVIEW

Lantech IES-0008B is a high performance all 8 10/100TX industrial Ethernet switch with 12V or 24V input range selection.

#### **Galvanic isolation for dual 24V, 12V input models**

The IES-0008B-12V accepts power input 9~36VDC and is compliant with ISO 7637-2 Pulse 5a which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

24V model can accept dual 9-60VDC power input.

**E-marking certificate\*(-12V model), High reliability and extended working temperature**

Lantech IES-0008B provides  $\pm 2000V$  EFT and  $\pm 6000V$  ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, Wireless backhaul, Semi-conductor factory and assembly lines.

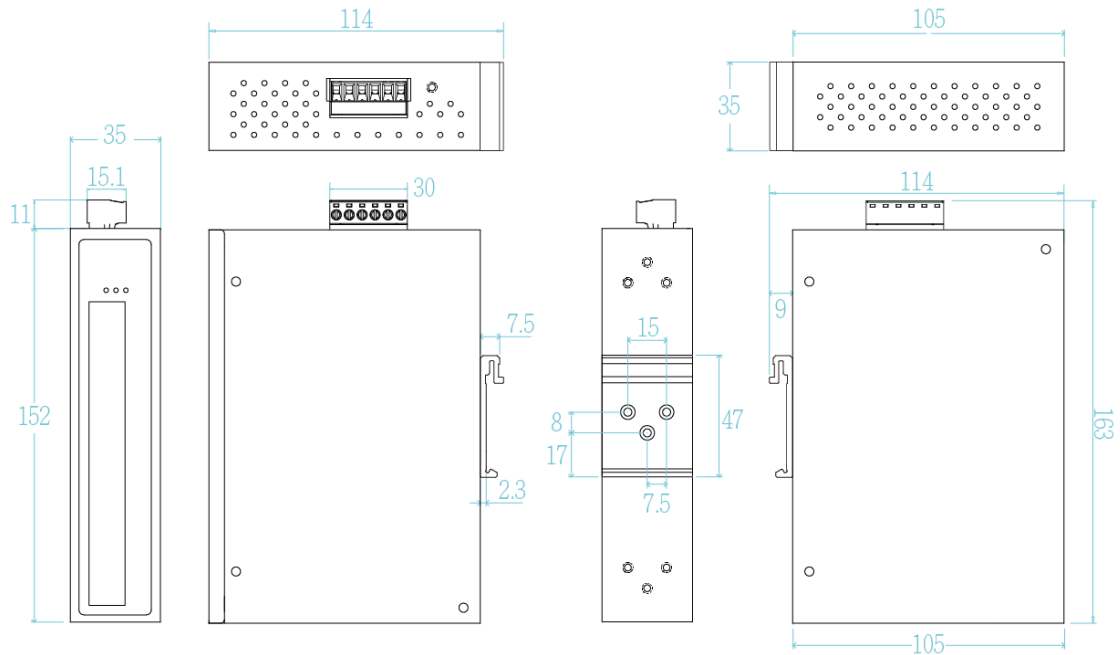
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas. (-12V model)

### FEATURES & BENEFITS

- 8 10/100TX industrial Ethernet switch (Total 8 Ports Switch)
- Dual 9V~36VDC power input for 12V model with ISO7637-2 compliance
- Dual 9V~60VDC power input for 24V model
- Back-plane (Switching Fabric): 1.6Gbps
- Provides EFT protection  $\pm 2000$  VDC for power line.
- Supports  $\pm 6000$  VDC Ethernet ESD protection
- Galvanic isolation between power input and case ground; between Ethernet port and case ground; between power input and Ethernet port
- E-marking\* certificate for vehicle application (-12V model)
- Relay alarm output for power fail and alarm
- IP30 metal housing with DIN rail and Wall-mount\*\* design

**DIMENSIONS (unit=mm)**



**SPECIFICATION**

Hardware Specification		Power Supply	9V~36VDC(12V model); 9V~60VDC(24V model)
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Power Consumption	5W
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Case Dimension	Metal case, IP-30, 43 (W) x 105 (D) x 152 (H) mm
Mac Address	16K MAC address table	Weight	900 g
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Installation	DIN Rail and Wall Mount** Design
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)	EMI & EMS	FCC Class A, CE EN55032, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8
Operating Humidity	5% ~ 95% (Non-condensing)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate	E-4 marking* (-12V model)
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF	NA
		Warranty	5 years

\*Future Release  
\*\*Optional

**ORDERING INFORMATION**

- **IES-0008B-12V.....P/N: 8351-118**  
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IES-0008B-12V-E.....P/N: 8351-119**  
8 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IES-0008B-24V.....P/N: 8351-120**  
8 10/100TX Industrial Ethernet Switch, dual 9V~60VDC input; -20°C to 60°C
- **IES-0008B-24V-E.....P/N: 8351-121**  
8 10/100TX Industrial Ethernet Switch, dual 9V~60VDC input, -40°C to 75°C

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

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