

# IES-0008B

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

- Dual 9V~60VDC input(12V model) compliant with ISO 7637-2
- 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.

#### **Galvanic isolation for dual 12V wide input range**

The IES-0008B-12V accepts power input 9~60VDC and is compliant with ISO 7637-2 which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

#### **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 EM/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  $75^{\circ}C$ .

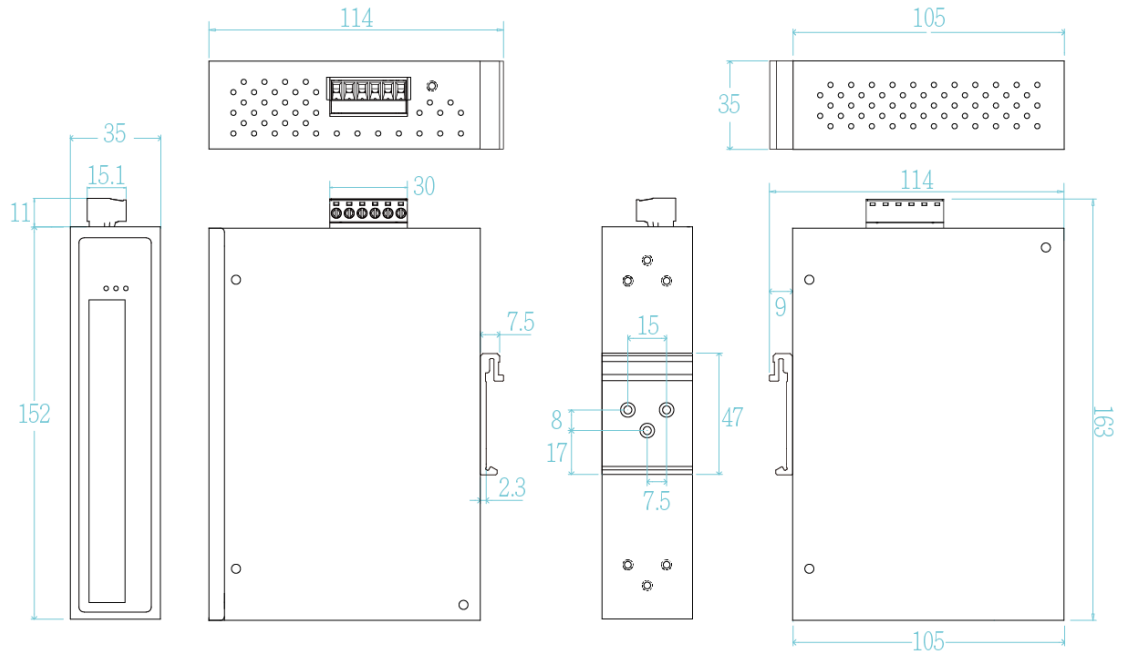
The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas. (-12V model)

### FEATURES & BENEFITS

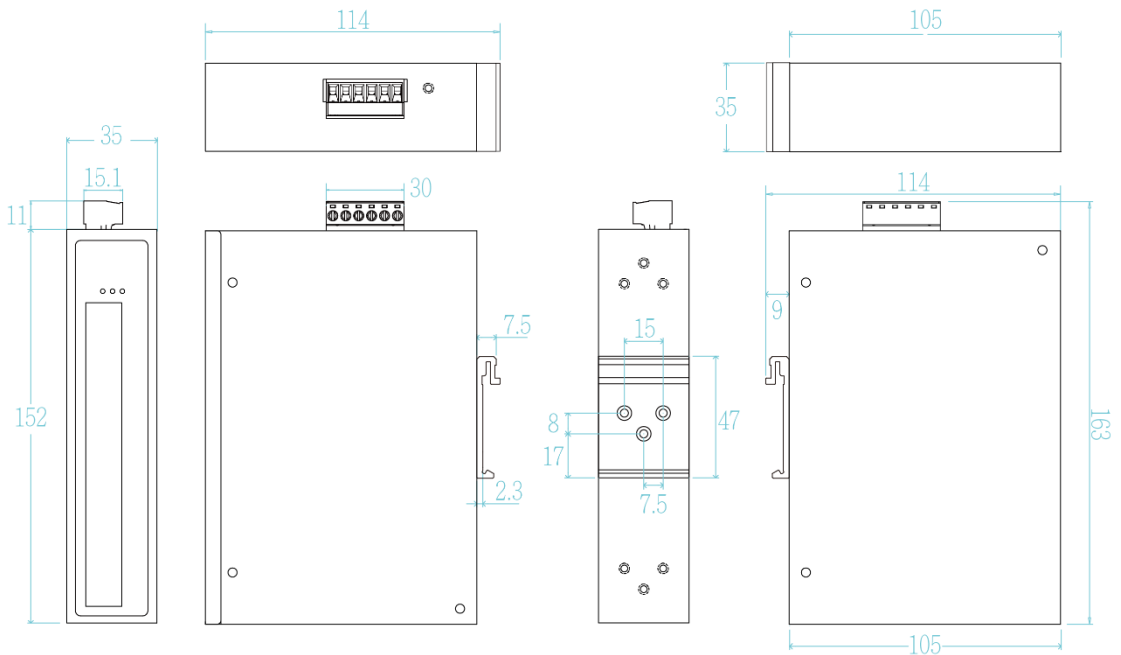
- 8 10/100TX industrial Ethernet switch (Total 8 Ports Switch)
- Dual 9V~60VDC power input for 12V model with ISO7637-2 compliance
- Back-plane (Switching Fabric): 1.6Gbps
- Provides EFT protection  $\pm 2000$  VDC for power line.
- Supports  $\pm 6000$  VDC Ethernet ESD protection
- Galvanic isolation 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 & IP40 metal housing with DIN rail and Wall-mount\*\* design

**DIMENSIONS (unit=mm)**

**IP30 model**



**IP40 model**



**SPECIFICATION**

Hardware Specification		
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Power & P-Fail connector: 1 x 6-pole terminal block
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Network Cable
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	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)
Mac Address	16K MAC address table	LED
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)
		Operating Humidity
		Operating
		5% ~ 95% (Non-condensing)
		-20°C~60°C / -4°F~140°F (Standard model)

Temperature	-40°C~75°C / -40°F~167°F(-E model)	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, CE EN61000-6-2
Storage Temperature	-40°C~85°C / -40°F~185°F		
Power Supply	9V~60VDC(12V model)		
Power Consumption	5W		
Galvanic Isolation	Between power input and case ground	Safety	EN62368 (LVD)
	Between Ethernet port and case ground Between power input and Ethernet port	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Case Dimension	Metal case. IP-30 & IP40	Vehicle certificate	E13 marking (-12V model)
	43 (W) x 105 (D) x 152 (H) mm	MTBF	NA
Weight	900 g	Warranty	5 years
Installation	DIN Rail and Wall Mount** Design		
Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V		

\*Future Release  
\*\*Optional

## ORDERING INFORMATION

- **IES-0008B-12V.....P/N: 8351-118**  
8 10/100TX Industrial Ethernet Switch, dual 9V~60VDC 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~60VDC input, compliant with ISO7637-2; -40°C to 75°C
  - **IES-0008B-40-12V.....P/N: 8351-120**  
8 10/100TX IP40 Industrial Ethernet Switch, dual 9V~60VDC input; compliant with ISO7637-2; -20°C to 60°C
  - **IES-0008B-40-12V-E.....P/N: 8351-121**  
8 10/100TX IP40 Industrial Ethernet Switch, dual 9V~60VDC input, compliant with ISO7637-2; -40°C to 75°C
- All part no. with WALL are models with wall mount kit instead of DIN Rail

## 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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