

# 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)
- EN50155/50121-3-2/50121-4 and EN45545-2 Fire & Smoke verification



### 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 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°C to 75°C.

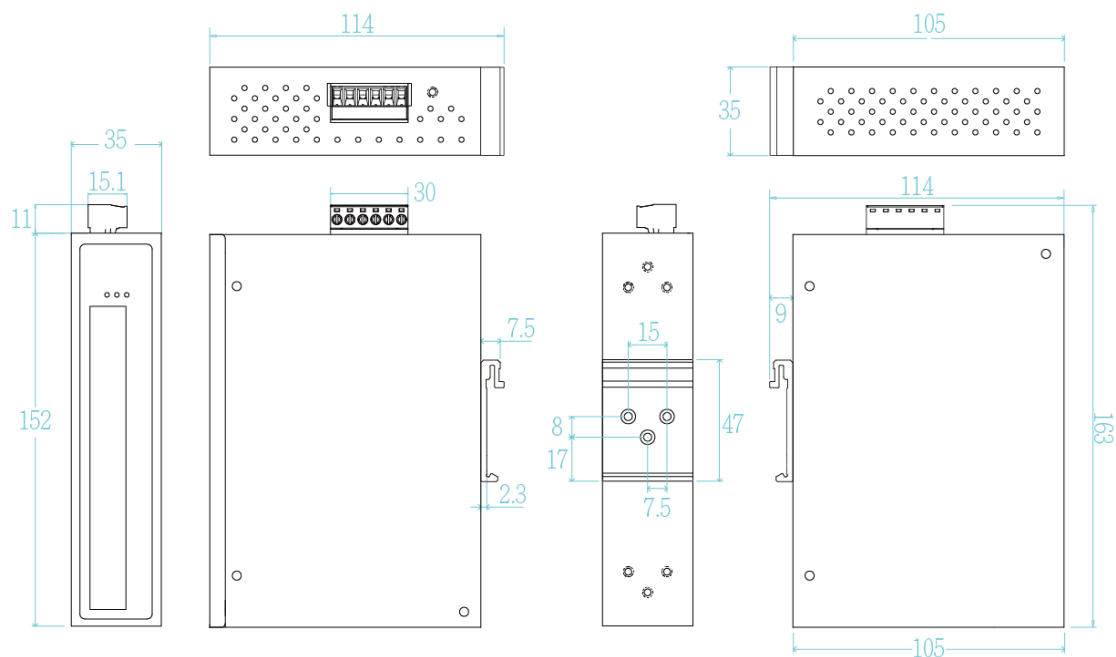
The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas. (-12V model)

### FEATURES & BENEFITS

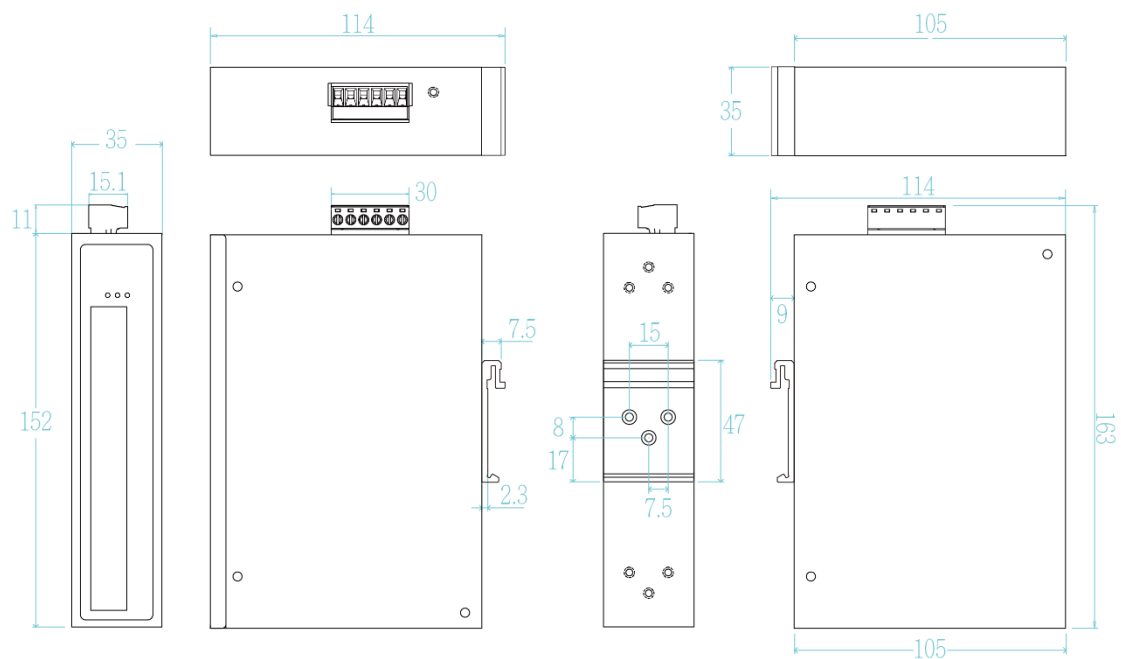
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| <ul style="list-style-type: none"> <li>■ 8 10/100TX industrial Ethernet switch (Total 8 Ports Switch)</li> <li>■ Dual 9V~60VDC power input for 12V model with ISO7637-2 compliance</li> <li>■ Back-plane (Switching Fabric): 1.6Gbps</li> <li>■ Provides EFT protection <math>\pm 2000</math> VDC for power line.</li> <li>■ Supports <math>\pm 6000</math> VDC Ethernet ESD protection</li> <li>■ Galvanic isolation between power input and case ground; between Ethernet port and case ground;</li> </ul> | <ul style="list-style-type: none"> <li>■ between power input and Ethernet port</li> <li>■ E-marking certificate for vehicle application (-12V model)</li> <li>■ Relay alarm output for power fail and alarm</li> <li>■ IP30 &amp; IP40 metal housing with DIN rail and Wall-mount** design</li> <li>■ EN50155/50121-3-2/50121-4 and EN45545-2 Fire &amp; Smoke verification</li> </ul> |
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**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	Network Cable	Power & P-Fail connector: 1 x 6-pole terminal block 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)
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Operating Humidity	5% ~ 95% (Non-condensing)
Mac Address	16K MAC address table	Operating	-20°C~60°C / -4°F~140°F (Standard model)
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function		

Temperature	-40°C~75°C / -40°F~167°F(-E model)		CE EN55032, CE EN55024,
Storage Temperature	-40°C~85°C / -40°F~185°F		CE EN61000-4-2, CE EN61000-4-3,
Power Supply	9V~60VDC(12V model)		CE EN61000-4-4, CE EN61000-4-5,
Power Consumption	5W		CE EN61000-4-6, CE EN61000-4-8,
Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port	Verifications & Report	EN50155/EN50121-3-2/EN50121-4 verification EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke verification E-mark certificate
Case Dimension	Metal case. IP-30 & IP40 43 (W) x 105 (D) x 152 (H) mm	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Weight	900 g	Vehicle certificate	E13 marking (-12V model)
Installation	DIN Rail and Wall Mount** Design	MTBF	NA
Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V	Warranty	5 years
EMI & EMS	FCC Class A,		

\*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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