IES-0005T

5 10/100TX Slim Type Industrial Switch

- *DNV Type Approval for Ships, Craft and Off-shore Platforms*
- *UL Class I Division II for Group A,B,C and D hazardous location*
- *Wide-range redundant power with polarity reverse protection*
- *Provides surge & ESD protection*

OVERVIEW

The Lantech IES-0005T is a slim type 5-Port 10/100TX Industrial Switch. It is able to use AC power adapter with wide DC input range and can be installed easily with DIN rail or wall mount kit.

The IES-0005T is designed to meet the demands of industrial environments, comes packaged in a robust IP 30 housing and has been tested extensively to meet Industrial EMI and EMC standards. With UL Class I Division II approval, the IES-0005T can be implemented in hazardous or explosive condition without accelerating the potential damage. The ESD, surge, and power polarity reverse protections, making IES-0005T work well without interruption.

The Lantech IES-0005T is the best to use in Industrial automation, Transportation, Semi-conductor factory, Heavy

Industrial factory and other factory assembly lines. Furthermore, UL Class I Division II safety certification makes IES-0005T your best choice to be installed in inflammable environment where the liquid, gas and vapor etc might present the hazardous condition which generally to be find in mining, oil & gas, chemical, processing automation areas.
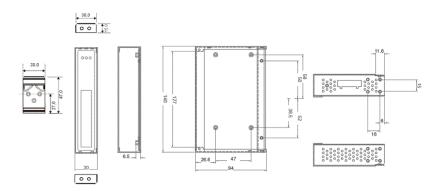
Lantech DNV-Type Approval IES-0005T-DNV model meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) and LVD (Low Voltage Directive) in which vibration, high voltage, compass safe distance, salt mist tests, humidity etc are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

FEATURES & BENEFITS

- **5-port 10/100TX Slim Type industrial switch**
- **Conforms to IEEE 802.3 10Base-T, 802.3u 100Base-TX/100Base-FX**
- **802.3u 100Base-TX/100Base-FX**
  - *Flow control on full-duplex*
  - *Back pressure on half-duplex*
- **RJ-45 port support auto MDI/MDI-X Function**
- **Store-and-forward switching architecture**
- **Wide-range redundant power design**

- **Power polarity reverse function to work under wrong polarity power connection**
- **Relay alarm output for system events**
- **DIN rail and wall mount design**
- **UL Class I Division II for Group A,B,C and D hazardous location**
- **Provides surge protection 3000 VDC for power line**
- **Supports 6000 VDC Ethernet ESD protection**

DIMENSIONS (unit=mm)

SPECIFICATION

Hardware Specification

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE802.3x Flow Control and Back-pressure
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet throughput ability (Full-Duplex): 2.38Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Memory Buffer	384Kbits
Packet Buffer	1Mbits
Mac Address	2K MAC address table
Connectors	10/100TX: 5 x RJ-45 with auto MDI/MDI-X function
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)
Protocol	CSMA/CD
LED	**Per unit:** Power 1 (Green), Power 2 (Green), Fault (Red) **Per port:** Link/Active (Green), Full duplex/Collision (Yellow)
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E / DNV model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Reserve polarity protection	Present
Overload current protection	Present

Power Supply	24VDC (9~56VDC), 12~36VAC*,Redundant power with polarity reverse protect function and removable terminal block
Power Consumption	2.93 Watts
Case Dimension	Metal case. IP-30, 30 (W) x 95 (D) x 140 (H) mm
Weight	430 g
EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Safety	UL, cUL, CE/EN60950-1 UL Class I Division II for Group A,B,C and D hazardous location
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
MTBF	412590 hrs
Installation	DIN Rail and Wall Mount Design
Warranty	5 years

*Optional

ORDERING INFOMATION

- **IES-0005T………...……........P/N: 8350-630**
  5 10/100TX Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0005T-E………..…….........P/N: 8350-632**
  5 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C)
- **IES-0005T-DNV…..…..……........P/N: 8350-632DNV**
  5 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C); DNV Type Approved
  *Redundant power without polarity reverse protect function
- **IES-0005T-AC…………….….....P/N: 8350-630-AC**
  5 10/100TX Industrial Switch, Standard Operating Temperature (-20°C~60°C); 12~36VAC
- **IES-0005T-E-AC…………..........P/N: 8350-632-AC**
  5 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C); 12~36VAC

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** — 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** — 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** — 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1120-48** — 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

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