

IES-0005-M12

5 10/100TX IP41 rated Industrial Switch w/M12 connectors

- EN50155/50121-3-2/50121-4 and NEMA TS2 compliant*
- Auto Bypass between Port 1 and Port 2*
- Provides M12 connector with IP41 rated protection
- Wide Operating Temperature from -40°C to 75°C
- Wide range redundant power inputs



OVERVIEW

Lantech IES-0005-M12 is a 5 10/100 Base-TX with M12-connector Unmanaged Industrial Switch for IP41 rated protection, which meets the high reliability requirements demanded by industrial applications.

The IES-0005-M12 is designed to meet with critical network environment with IP41 enclosure and M12 connectors for protection against dust and dripping water. It has passed harsh environmental testing to comply with Industrial EMI and Safety standards. It also passed stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the

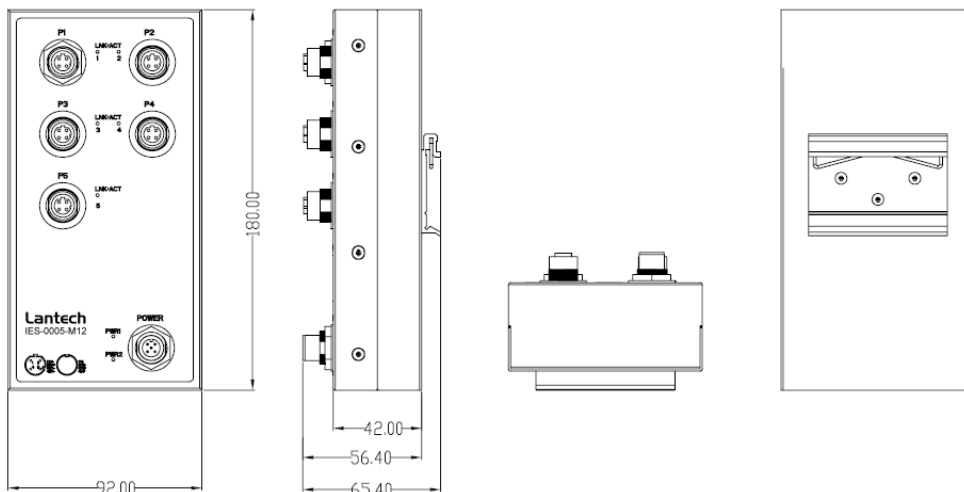
IES-0005-M12 supports an extended operating temperature range from -40°C to 75°C. Auto Bypass* function ensures the Ethernet signal connection through internal circuitry under no-power condition that provides non-stop communication to rolling stocks even no power exist in some of the carriages.

The IES-0005-M12 is compliant with EN50155/ 50121-3-2/ 50121-4* (railway applications), NEMA TS2* (Traffic Control System) and e-Mark*, making the switch suitable for a variety of industrial applications.

FEATURES & BENEFITS

- 5 10/100TX Unmanaged Industrial Switch with M12 connectors and IP41 rated protection
- Redundant Power Design with wide DC12V~48V/ DC-12V~ -48V input
- Back-plane (Switching Fabric): 1.0 Gbps
- Packet throughput ability: 23.8 Mpps @64bytes
- Packet Buffer: 448Kbits
- 2K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail and wall mount design
- EN50155/50121-3-2/50121-4 and NEMA TS2 compliant*
- Auto Bypass between Port 1 and Port 2*
- e-Mark Compliant*

DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification	
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3x Flow Control and Back Pressure
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Packet Buffer	448Kbits
Mac Address	2K MAC address table
Connector	10/100T: 5 x M12, 4-pole D-coded, Female with auto MDI/MDI-X function Power connector: 1 x M12, 5-pole A-coded, Male
Protocol	CSMA/CD
LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green)
Power Supply	DC 12V ~48V/ DC -12V ~ -48V, Redundant power with polarity reverse protect function
Power Consumption	10.7 Watts
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Case Dimension	IP41, 92mm (W) x 180mm (H) x 42mm (D)
Weight	750g

Installation	Din Rail, Wall Mount Design
EMC	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8 (Magnetic Field), CE EN61000-6-2, CE EN61000-6-4
Safety	UL/cUL 60950
Stability Testing	IEC61373 (Shock), IEC60068-2-32 (Free fall), IEC61373 (Vibration)
Standard	EN50155 Compliant* EN50121-3-2 Compliant* EN50121-4 Compliant* NEMA TS2 Compliant* e-Mark* Auto Bypass*
Warranty	5 years

*Pending

ORDERING INFORMATION

- **IES-0005-M12.....P/N: 8360-556**
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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

Datasheet Version 1.0

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

M12 Connector / Cable

- **ECON120005MM** 5 Pin M12 Power Male Connector
- **ECON120004FF** 4 Pin M12 RJ45 Female Connector
- **ECAB125030F0** 5 Pin M12 Power Female 3M Cable
- **ECAB124030MJ** 4 Pin M12 RJ45 Male 3M Cable

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