

TN-5305 Series

EN 50155 5-port IP67 unmanaged Ethernet switches



- > 10/100BaseT(X), 4-pin M12 (D-coding), F/H duplex mode, and auto MDI/MDI-X connection
- > IP-67 rated housing protection
- > Power input: 12 to 45 VDC, 18 to 30 VAC
- > EN 50155 and EN 50121-4 compliant
- > -40 to 75°C operating temperature range (T models)



Introduction

The TN-5305 series Ethernet switches are IP67 rated for the toughest industrial applications, which means that the rugged housing and connectors guard against dust, water, and oil. By using M12 connectors, you can rest assured that Ethernet cables will connect tightly to the switch, and will be robust enough to protect your

applications from external disturbances, such as the vibration and shock encountered in the transportation industry. The space-saving TN-5305 switches can be mounted virtually anywhere, and wide operating temperature (-40 to 75°C) models are also available for use in the extremest of conditions.

Specifications

Technology

Standards:

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X)
- IEEE 802.3x for Flow Control

Processing Type: Store and Forward

Flow Control: IEEE 802.3x full duplex, back pressure flow control

Interface

M12 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

LED Indicators: Power, LNK/ACT

Power Requirements

Input Voltage:

- 12 to 45 VDC
- 18 to 30 VAC (47 to 63 Hz)

Input Current:

- 0.12A @ 24 VDC
- 0.28A @ 24 VAC

Overload Current Protection: 1.1 A (Limited Current)

Connection: 1 M12 socket (A-coding), single power input

Reverse Polarity Protection: Present

Physical Characteristics

Housing: Plastic, IP67 protection

Dimensions: 60 x 125 x 27.6 mm (2.36 x 4.92 x 1.09 in)

Weight: 250 g

Installation: Field-style mounting, DIN-Rail mounting (with optional kit)

Environmental Limits

Operating Temperature:

- Standard Models: 0 to 60°C (32 to 140°F)
- Wide Temp. Models: -40 to 75°C (-40 to 167°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Safety: UL 508

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

- EN 61000-4-2 (ESD) Level 3,
- EN 61000-4-3 (RS) exceeds Level 3,
- EN 61000-4-4 (EFT) Level 3,
- EN 61000-4-5 (Surge) Level 3,
- EN 61000-4-6 (CS) Level 2,
- EN 61000-4-8,
- EN 61000-4-11

Maritime: DNV, GL (Pending), ABS, LR, NK

Rail Traffic: (for panel mounting installations)

EN 50155, EN 50121-4 (Pending)

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Note: Please check Moxa's website for the most up-to-date certification status.

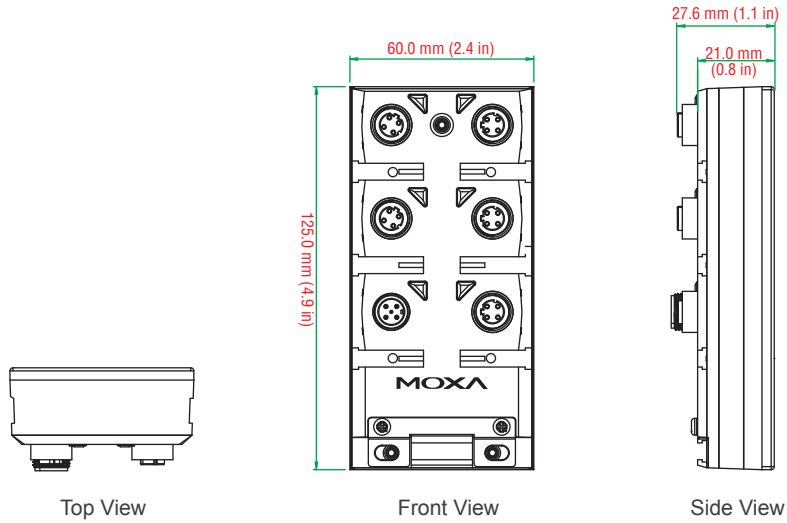
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



: Ordering Information

Available Models

TN-5305: EN50155 IP67 unmanaged Ethernet switch with 5 10/100BaseT(X) ports, 0 to 60°C operating temperature

TN-5305-T: EN50155 IP67 unmanaged Ethernet switch with 5 10/100BaseT(X) ports, -40 to 75°C operating temperature

Optional Accessories (can be purchased separately)

DR-4524/75-24/120-24: 45/75/120 W DIN-Rail 24 VDC power supplies

Power Cords, M12 Connectors, Protective Caps: See page 2-22

Package Checklist

- TN-5305 series switch
- 3 protective caps for unused ports and 8 port labels
- Panel mounting kit
- Hardware installation guide
- Warranty card

Accessories

: M12/M23 Power Cords

CBL-M12D(MM4P)/RJ45-100 IP67

1-meter M12-to-RJ45 Cat-5C UTP Ethernet cable with IP67-rated 4-pin male D-coded M12 connector



CBL-M12(FF5P)/OPEN-100 IP67

1-meter M12-to-5-pin power cable with IP67-rated 5-pin female A-coded M12 connector



CBL-M23(FF6P)/Open-BK-100 IP67

1-meter M23-to-6-pin power cable with IP67-rated female 6-pin M23 connector



: M12 Connectors

M12D-4P-IP68

Field-installable M-12 D-coded screw-in sensor connector, 4-pin male, IP68-rated



M12A-5P-IP68

Field-installable M-12 A-coded screw-in sensor connector, 5-pin female, IP68-rated



: M12 IP67 Protective Caps

A-CAP-M12F-M



A-CAP-M12M-M

