# **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

#### **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, FN 61000-4-11

Maritime: DNV, GL (Pending), ABS, LR, NK Rail Traffic: (for panel mounting installations)

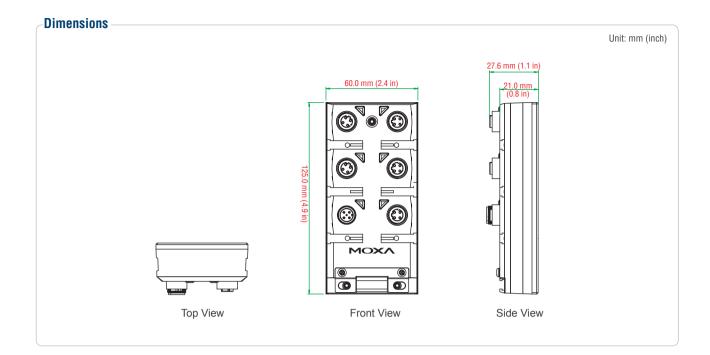
EN 50155, EN 50121-4 (Pending) Shock: IEC 60068-2-27

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 Period: 5 years

Details: See www.moxa.com/warranty



## **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

