



# GIGABIT EN50155 POE SPLITTER

**EN 50155**

## INTRODUCTION

TE's EN50155 compliant PoE Splitters are designed for industrial applications, such as rolling stock, vehicle, and railway applications. 2355173 series are high power PoE Splitters for use in Power over Ethernet systems and are compliant with EN50155. The series is specifically designed for the toughest industrial environments. The 2355173 PoE Splitters are equipped with M12 connectors to ensure tight, robust connections, and guarantee reliable operation. They protect against environmental disturbances, such as vibration and shock. With its PoE Ethernet Input (data + power) port and Output (data only) port, the splitter can split power from an existing PoE connection and convert up to 24VDC/1A or 12VDC/2A for applications such as Wireless APs, Security cameras and IP Phones.

## PACKAGE CONTENTS

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

- 2355173 series PoE Injector
- Quick Installation Guide

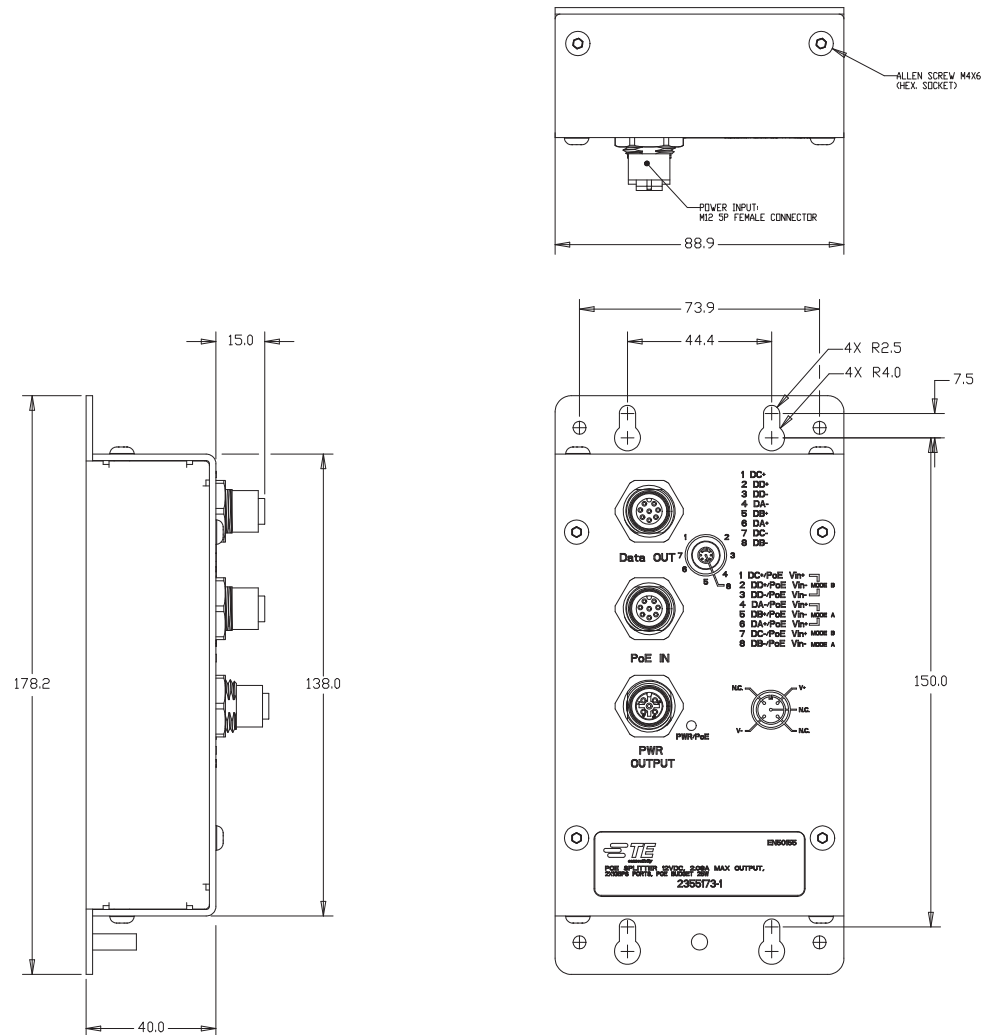
## PREPARATION

Before you begin installing the device, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

## Safety & Warnings

- Elevated Operating Ambient:** If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.
- Reduced Air Flow:** Make sure the amount of air flow required for safe operation of the equipment is not compromised during installation.
- Mechanical Loading:** Make sure the mounting of the equipment is not in a hazardous condition due to uneven mechanical loading.
- Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

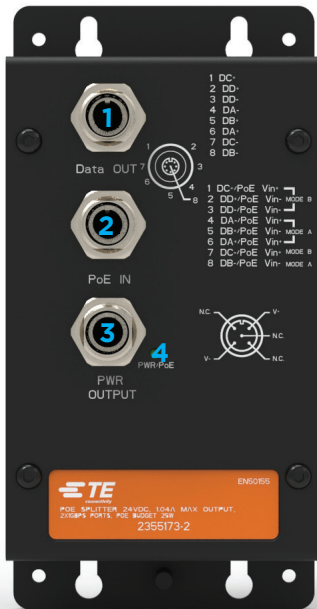
## DIMENSIONS (in mm)





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## PANEL LAYOUTS



1	Gigabit Data output port
2	Gigabit PoE input Port
3	PoE Power output port
4	Power / PoE power indicator

## INSTALLATION

The device can be fixed to the wall. Follow the steps below to install the device on the wall.

**Step 1:** Hold the device upright against the wall

**Step 2:** Insert four screws through the large opening of the keyhole-shaped apertures at the top and bottom of the unit and fasten the screw to the wall with a screw driver.

**Step 3:** Slide the device downwards and tighten the four screws for added stability.

## NETWORK CONNECTION

The device provides Ethernet ports in M12 connector type. According to the link type, the switch uses CAT 3, 4, 5, 5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable types and specifications

Pin No.	Type	Max Length	Connector
10BASE-T	Cat. 3, 4, 5 100Ω	UTP 100m	M12 A-coding female
100BASE-T	Cat. 5 100Ω UTP	UTP 100m	M12 A-Coding female
1000BASE-T	Cat. 5/5e 100Ω UTP	UTP 100m	M12 A-Coding female

For Pin assignments of the LAN ports, pls refer to the following tables:

## POE Mode A, 10/100 Base-T(X)

Pin No.	M12 Input (Data and power)		M12 Output (Data only)	
	Symbol	Description	Symbol	Description
1	Rx+ (Vdc1+)	Data + power	Rx+	Data
2	Rx- (Vdc1+)	Data + power	Rx-	Data
3	Tx+ (Vdc1-)	Data + power	Tx+	Data
4	NC (Vdc2+)	Power	NC	NC
5	NC (Vdc2+)	Power	NC	NC
6	Tx- (Vdc1-)	Data + power	Tx-	Data
7	NC (Vdc2-)	Power	NC	NC
8	NC (Vdc2-)	Power	NC	NC

Pins 3 and 6 should not be shorted to ground

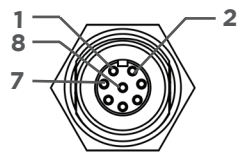
## PoE Mode A, 1000 Base-T

Pin No.	M12 Input (Data and power)		M12 Output (Data only)	
	Symbol	Description	Symbol	Description
1	BI_DA+(Vdc1+)	Data+power	BI_DA+	Data
2	BI_DA-(Vdc1+)	Data+power	BI_DA-	Data
3	BI_DB+(Vdc1-)	Data+power	BI_DB+	Data
4	BI_DC+(Vdc2+)	Data+power	BI_DC+	Data
5	BI_DC-(Vdc2+)	Data+power	BI_DC-	Data
6	BI_DB-(Vdc1-)	Data+power	BI_DB-	Data
7	BI_DD+(Vdc2-)	Data+power	BI_DD+	Data
8	BI_DD-(Vdc2-)	Data+power	BI_DD-	Data

## Poe Mode B, 10/100 Base-T(X)

Pin No.	M12 Input (Data and power)		M12 Output (Data only)	
	Symbol	Description	Symbol	Description
1	Rx+	Data	Rx+	Data
2	Rx-	Data	Rx-	Data
3	Tx+	Data	Tx+	Data
4	Vdc+	Power	NC	NC
5	Vdc+	Power	NC	NC
6	Tx-	Data	Tx-	Data
7	Vdc-	Power	NC	NC
8	Vdc-	Power	NC	NC

Pins 7 and 8 should not be shorted to ground

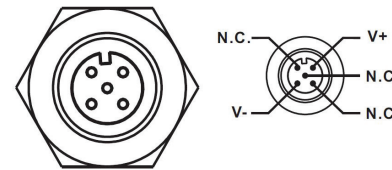


## 1000 Base-T

Pin No.	M12 Input (Data and power)		M12 Output (Data only)	
	Symbol	Description	Symbol	Description
1	BI_DA+(Vdc1+)	Data+power	BI_DA+	Data
2	BI_DA-(Vdc1+)	Data+power	BI_DA-	Data
3	BI_DB+(Vdc1-)	Data+power	BI_DB+	Data
4	BI_DC+(Vdc2+)	Data+power	BI_DC+	Data
5	BI_DC-(Vdc2+)	Data+power	BI_DC-	Data
6	BI_DB-(Vdc1-)	Data+power	BI_DB-	Data
7	BI_DD+(Vdc2-)	Data+power	BI_DD+	Data
8	BI_DD-(Vdc2-)	Data+power	BI_DD-	Data

## Power Supply

The device provides one set of power supply using the M12 5-pin female connector on the front panel. Please refer to the following figure for pin assignments



## CONFIGURATIONS

After installing the switch and connecting cables, start the device by turning on power. The green power LED should turn on. Please refer to the following table for LED indication.

LED	Color	Status	Description
Power	Green	On	Power is on