8-Port GIGABIT MANAGED PoE SWITCH QUICK INSTALLATION GUIDE

EN 50155 SWITCH

INTRODUCTION

The 2352900-1 is a managed redundant PoE Ethernet switch with 8x 10/100/500/1000 Base-T(X) P.S.E. ports, specifically designed for the toughest environment and fully compliant with EN50155. The switch supports the Ethernet Redundancy protocol, TE-Ring (recovery time < 30ms over 250 units), TE-Chain, MSTP/RSTP/STP ton protect your mission critical applications from network interruptions or temporary malfunctions. 2352900-1 also supports Power over Ethernet a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each switch has 8x10/100/1000Base-T(X) P.S.E. (PowerSourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE connection. With its EN50155 compiance, the switch is a perfect choice for rolling stock applicaitons.

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.

- 2352900 series Ethernet switch
- CD Containing software
- 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

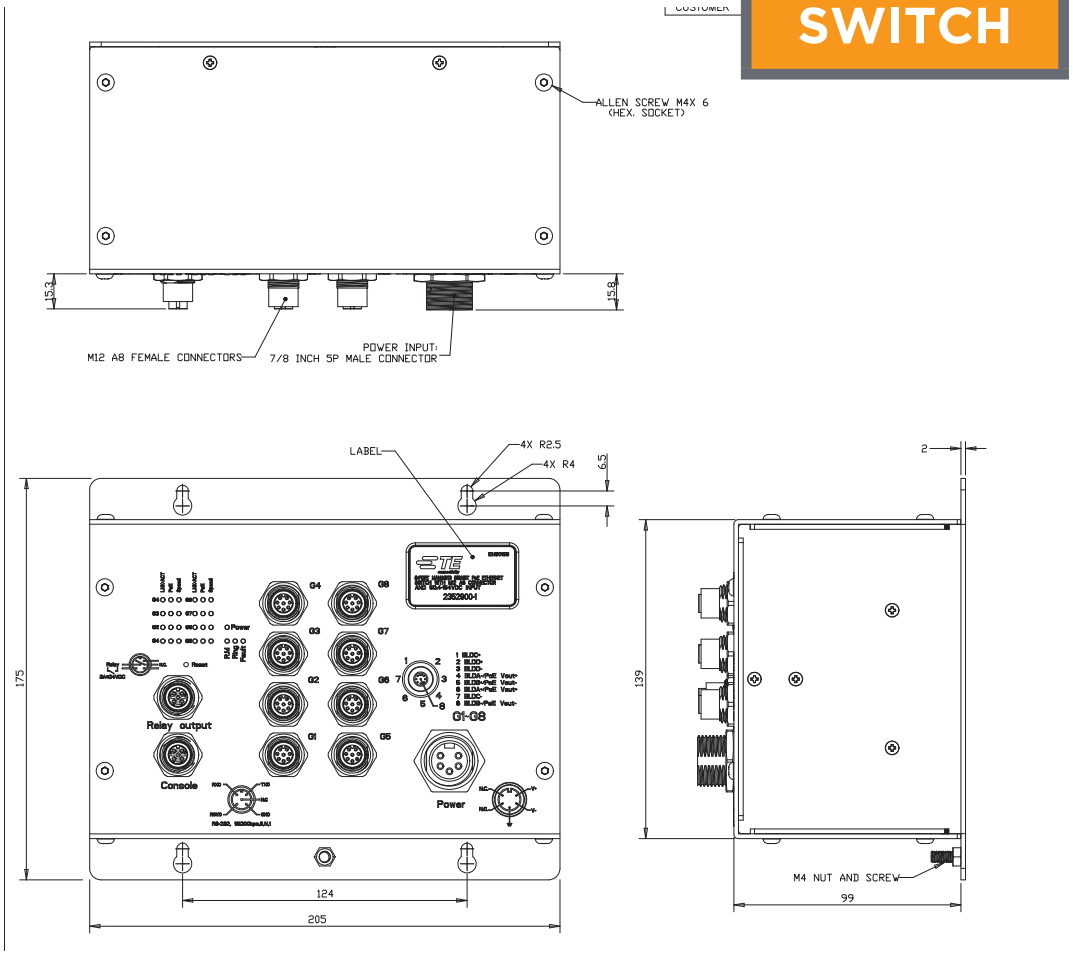
Elevated Operating Ambient: If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

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	Reset Button
2	Power status LED
3	R.M. Status LED
4	Ring Status LED
5	Fault LED
6	Link/ACT LED for PoE enabled Gigabit ports
7	PoE Indicator for PoE enabled Gigabit ports
8	Speed LED for PoE enabled Gigabit ports
9	PoE enabled Gigabit Ethernet ports
10	Power connector
11	Relay output port
12	Console Port

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.

WIRING

For pin assignments please refer to the instructions below:

Grounding

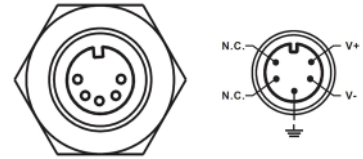
Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the grounding pin on the power connector to the grounding surface prior to connecting devices.

Power port pinouts

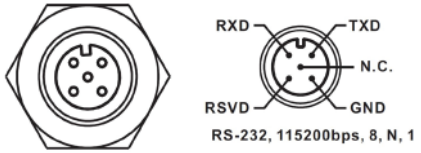
The 2352900 series uses the 7/8 inch 5-pin male connector on the front panel for the power input.

Step 1: Insert a power cable to the power connector on the device.

Step 2: Rotate the outer ring of the cable connector until a snug fit is achieved. Make sure the connection is tight.

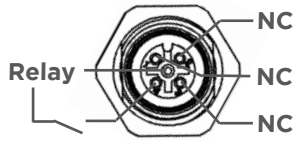


Console port pinout



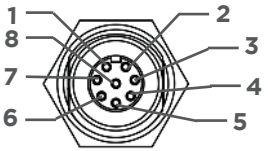
Relay output ports pinouts

The switch uses the M12 A-coded 5-pin female connector on the front panel for relay output. Use a cable with an M12 A-coded 5-pin male connector to connect the relay. The relay contacts will detect user-configured events and form an open circuit when an event is triggered.



M12 A-Code Ethernet ports

Pin No.	Description	Pin No.	Description
1	BI_DC+	5	BI_DB+ / PoE Vout-
2	BI_DD+	6	BI_DA+ / PoE Vout+
3	BI_DD-	7	BI_DC-
4	BI_DA- /POE Vout+	8	BI_DB- / PoE Vout-



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PoE power budget

Partnumber	Input power	PoE power budget
2352900-1	72-110V	60W

NETWORK CONNECTION

The device provides Ethernet ports in M12 connector type. According to the link type, the switchuses 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

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

LED INDICATORS

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

LED	Color	Status	Description
PWR	Green	On	DC power module activated
R.M	Green	On	Device operating in Ring master mode
Ring	Green	On	Ring enabled
		Blink	Ring structure is broken
Fault	Amber	On	Errors occur (i.e. power failure or port malfunction)
10/100/1000Base-T(X) P.S.E. Ethernet ports			
LNK/ACT	Green	On	Port is linked
		Blink	Transmitting data
PoE	Green	On	Power supplied over Ethernet
Speed	Green	On	Port is running at 1Gbps
	Amber	On	Port is running at 100 Mbps
	-	Off	Port is running at 10Mbps

LOGIN

Default IP adress: 192.168.10.1

Default username: admin

Default password: admin

Refer to the user manual for further instructions

RESET

To restore the device configurations back to the factory defaults, press the Reset button for 5 seconds. Once the power indicator starts to flash, release the button. The device will then reboot and return to factory defaults.

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