

MANSI™ TS Series Resistive Fuel Level Sensor for Tomasetto / Emer type Multivalves



into Tomasetto and Emer type multivalves. Manufactured under tight environmental conditions, these two wire sensors accurately output fuel level in the form of an output resistance. High quality, high gauss, nickel plated rare earth magnets ensure long life under harsh conditions. All contacts are gold plated and batch wise quality checked.

Features

- Environmentally Sealed
- Manufactured under tight workplace conditions
- Choice of custom output resistance
- Mechanical sensor without resistance output available (TS–E model)
- Clear markings and printing
- · High quality, high gauss magnets ensure long life
- High quality gold plated contacts
- 6m wiring cable included
- Low cost
- RoHS compliant

Application

- LPG/CNG Vehicles
- OEM fitment and after market conversion kits
- For use with Tomasetto / Emer type multivalves

Description

These are environmentally sealed resistive output fuel level sensors for LPG/CNG multivalves, designed to fit

Technical Overview

Operating Resistance Range: User Defined

Resistance Step: Reserve + 8 Steps

Operating Temperature Range: -40 °C to +125 °C

Environmental Protection: IP67

Vehicle Suitability: Any vehicle operating on 12V battery

Harness length: 6m (Harness optional)

Standards: Follows UNECE Regulations 67, 110 and 114

Ordering Information

Shown below is ordering code chart with example: TS-A90GN. RoHS compliance certificate is available on request.

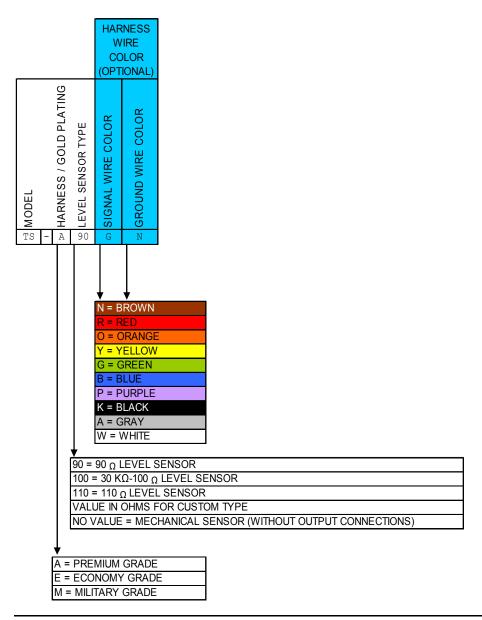


Figure 1: TS Series Ordering Information



Technical Specifications

Available upon request



Installation

- ⚠ Installation by trained personnel only.
- ⚠ Incorrect or loose connections can cause permanent damage to the device and voids all warranty.
- ⚠ Do not install the unit near sources of excessive heat.
- ⚠ Do not touch any electrical terminal on the device during installation. Harness plug must be inserted into the device only after all wiring connections are performed and double checked.
- ⚠ Follow common safety rules of automotive repair during installation.



Step 1: Open package

Package contains

- one device
- one wiring harness
- two mounting screws
- one user's manual

Step 2: Perform wiring

Connect the device to changeover switch's appropriate terminals, using the supplied harness. All connections should be double checked for correctness.

Notice

It is best to connect the GND of the wiring harness as close as possible (preferably directly) to the changeover switch's ground because difference in ground at various places can cause erroneous results.

Step 3: Mount Device

Mount device firmly on multivalve using the supplied mounting screws. The large mounting holes in the device enable angular adjustment at the time of mounting. This helps to adjust the output for a given fuel level in tank.

Step 4: Test

Start the vehicle and put it in GAS mode. Manually swing multivalve fuel float slowly and observe change in level indicator lights of changeover switch.



Warranty

Mansi Engineering guarantees its parts to be free from defects in workmanship and materials when operated under normal conditions and in accordance with nameplate characteristic limits. In case of electronic unit, this warranty shall be in effect for a period of 18 months from date of manufacture. However wiring cables or harnesses are not covered by any type of warranty. THIS WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Mansi Engineering will repair or replace, at its option, any device which has been found to be defective and is within the warranty period, provided that the device is shipped, with previous factory authorization, freight prepaid, to the nearest authorized service center. Mansi Engineering is not responsible for removal, installation, or any other incidental expenses incurred in shipping the device to or from Mansi Engineering.

Mansi Engineering's liability under this warranty shall be solely limited to repair or replacement of the device within the warranty period, and Mansi Engineering will not be liable under any circumstances, for consequential or incidental damages, including, but not limited to, personnel injury or labor costs.

Under no circumstances will Mansi Engineering be responsible for any expense in connection with any repairs made by anyone other than the factory or an authorized service center, unless such repairs have been specifically authorized in writing.

Notes



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