

# 4136 EOL-Input Module, Miniature Transponder



Tracer's 4136 EOL-Input Module

Single Wire T-Buss<sup>TM</sup> Loop

99 IDMs Scanned 6x/SEC

## DIGITAL INPUT

Any floating contact can be read by the 4136. The input contract is supervised by a 1.43 OHM resistor supplied be the user.

## PROGRAMMING

The 4136 can be set to any address from 0-255. The address is stored internally in an EEPROM. The address is written into the module through the 2-wires connected to the T-Buss<sup>TM</sup>, and can actually be changed while the module is on the T-Buss<sup>TM</sup>. An available TPU-7 Programmer/ tester is available through Tracer.

**Note:** TCU-7 supports IDM numbers 1-99

## APPROVALS

The T-Buss<sup>TM</sup> and its components meet or exceed such standards as UL 864.

Note: The wires need to be tie wrapped to the body to pass the 10 lb pull test.

## HIGHLIGHTS

- Very Low Cost
- Miniature Size
- High Noise Immunity
- Reads a contact with EOL supervision

## DESCRIPTION

The 4136 is an Input transponder compatible with Tracer's T-Buss<sup>TM</sup> multiplex system. The module provides a direct interface between variable-resistance inputs and the T-Buss<sup>TM</sup> controller. It finds use as an input module for contacts where wiring supervision is required between the module and the contact. The 4-wire module connects to the T-Buss<sup>TM</sup> (2-wires) to the resistance or contact that is to be monitored (2 wires).

## The T-BUSS<sup>TM</sup>

The T-Buss<sup>TM</sup> is Tracer's patented low-cost multiplex system. Two-wires are used to power the ID Modules (IDMs), to send commands to the modules and to receive their data. The commands from the central polling controller to the IDMs take the form of modulating the T-Buss<sup>TM</sup> voltage between 0-10v. The data returned from the modules is in the form of increased T-Buss<sup>TM</sup> current.

For technical details on the T-Buss<sup>TM</sup> and its protocol, please contact Tracer's marketing group.

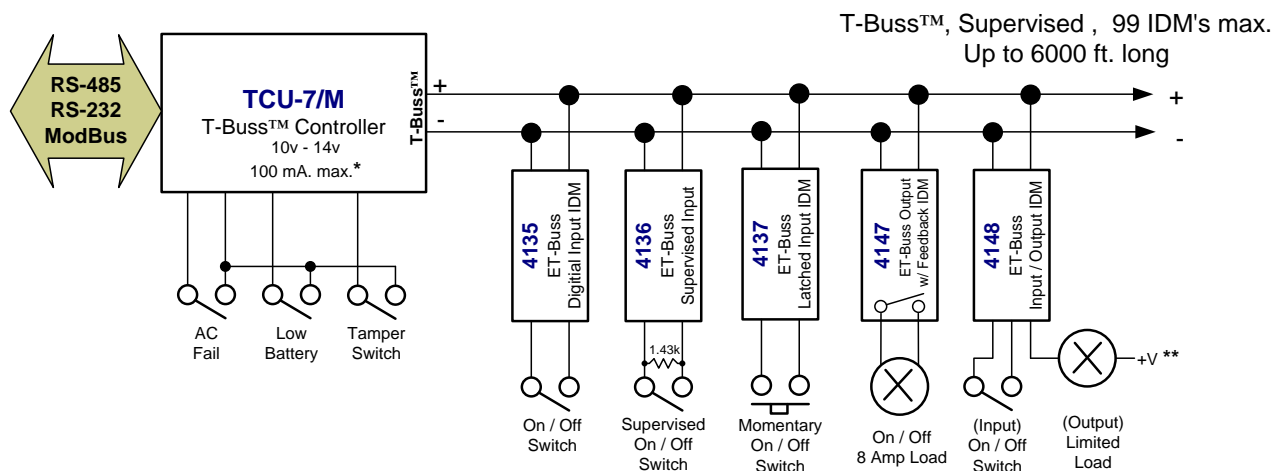
Patented Technology

High Noise Immunity

## SPECIFICATIONS

<b>T-Buss™ Voltage:</b>	8v to 16v (supplied by TCU-7/M)
<b>T-Buss™ Duty Cycle:</b>	50% to 100%
<b>T-Buss™ Current:</b>	15uA typical @ 7v 60uA @ 10v
<b>Sub-Loop Current:</b>	0 to 15 mA @ 10v (at contact input)
<b>Operating power:</b>	Supplied by T-Buss™
<b>T-Buss™ Wiring:</b>	18 - 22 AWG twisted (unshielded), 6,000 feet or 150 Ohms
<b>Dimension, Body:</b>	9 mm dia x 42 mm long
<b>Leads:</b>	22AWG, approximately 142 mm long Red (+), Black (-) to connect to T-Buss™ Green, Orange to contact input (with EDL)

## Tracer T-Buss™ System



\* In the event the that the T-Buss™ loop is shorted, the TCU-7 will require up to 300 MA. In order to report the shorted T-Buss condition.

\*\* +V connects to +side of T-Buss™ for limited power draw. Connect to Isolated power for additional capability.