

# TRM Sensors LLC Data Sheet

## TRM Opto-to-Relay Adapter

### Product Description

**TRM Opto-to-Relay Adapter** is a small DIN rail mounted module that allows select GEMS optical probes to TraceTek instrumentation such as the TT-SIM family.

The **Adapter** accepts a single, sink type, 3-wire optical level probe manufactured by GEMS Sensors as input and provides a single Form-A dry relay contact as output. The adapter is needed because of the inherent incompatibility of the GEMS 3-wire optical probe with the 4-Wire Trace Tek circuit used by the TraceTek TT-SIM family. The normally open dry contact relay output of the adapter can be connected across the standard red-green / yellow-black TraceTek loops to generate a leak detect signal whenever liquids contact the optical sensor.

TRM Opto-to-Relay Adapter can be operated on either 12 Vdc or 24 Vdc (must be specified at the time of purchase)

The adapter is designed to be used as part of a TT-SIM network managed by a TTDM or TT-TS12 type leak detection panel. The output relay contacts of the adapter are meant to be used as a logic signal and should not be directly connected to a significant electrical load.

### Key Features

- Small DIN rail foot print
- Operates on either 12 Vdc or 24 Vdc (must be specified when ordered)
- Connects to TTSIM using standard float switch type connections
- Supports “sink type” GEMS Sensor optical probes



### Product Specifications

- Power Source 12 Vdc or 24 Vdc (must be specified when ordered)
- Accepts 3-wire, “sink type” GEMS optical probes as input: ( Ex: GEMS P/N 142700)
- Normally Open, dry contact relay output, closes on leak detection
- Relay current rating 500 mA (use for status signaling, direct load switching not advised)
- Adapter is not rated for hazardous area installation, but can accommodate explosion proof optical probes (Rx: GEMS P.N 227257) and/or Zener safety barriers Barrier between adapter and probe)
- 7 position terminal block for supply voltage, probe connections, output contacts
- Dimensions (with DIN rail clip): width 20 mm, height: 50 mm, depth 80 mm
- Epoxy encapsulated circuitry
- Weight: 56 g
- Operating Temperature: -13°F to 131°F (-25°C to +55°C)
- Relative Humidity 5% to 95%, non-condensing