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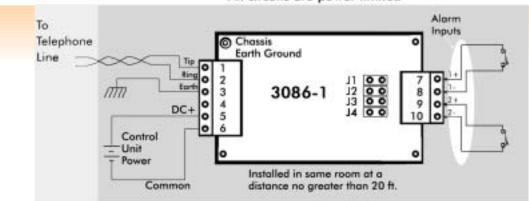


3086-1 TTM-REL Tones Transmitter Module Dry Contact Inputs





Wiring Diagram All circuits are power limited



Notes: 1) Use 18 AWG UL-listed wire.

General

3086-1 TTM (Tones Transmitter Module) accepts dry contact inputs and transmits tones. This manual describes the installation of the TTM. The 3086-1 TTM is intended for connection to a dry contact circuit of a control unit at the protected premises having compatible ratings.

Installation

Connect the positive side of a 10-30 VDC Class 2 or Class 3 power limited source of supply to pin 5, and the negative side to pin 6. Note that pin 6 is not an earth ground.

Connect pins 1 and 2 to a 600 ohm telephone line. These lines are electrically isolated from the main circuit of the TTM. These pins are interchangeable. Pin 3 is the earth ground. Connect either this pin or the conductive mounting hole to an earth ground.

Pins 7, 8, 9, and 10 are the contact inputs. For Alarm 1, J1 is to be installed for a normally open input and J2 for normally closed. For Alarm 2, install J3 for normally open and J4 for normally closed. Make unused inputs normally open.

TTM-1 boards are shipped with both inputs set for normally open contacts; J1 and J3 are installed.

| 3086-1 Pin description | | | | | |
|------------------------|---------|--------|--|--|--|
| Pin # | Name | Туре | Description | | |
| 1 | Тір | Output | Connects to one side of the telephone line | | |
| 2 | Ring | Output | Connects to the other side of the telephone line | | |
| 3 | Earth | Input | Earth ground | | |
| 4 | | | No connection | | |
| 5 | DC+ | Input | Positive 10 - 30 volts DC power input | | |
| 6 | Common | Input | Negative DC power input | | |
| 7 | Alarm1+ | Input | First zone RP input (dry contact input) | | |
| 8 | Alarm1- | Input | First zone RP input (common) | | |
| 9 | Alarm2+ | Input | Second zone RP input (dry contact input) | | |
| 10 | Alarm2- | Input | Second zone RP input (common) | | |

| Jumper instructions | | | | | |
|---------------------|----|-----------------|--|--|--|
| J1 | J2 | Alarm1 Input | | | |
| | | Normally open | | | |
| | | Normally closed | | | |
| | | | | | |
| J3 | J4 | Alarm2 Input | | | |
| | | Normally open | | | |
| | | Normally closed | | | |

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INTERFACE REQUIREMENTS

Contacts monitored by the 3086-1 are connected between the input of a 5 volt powered CMOS gate and circuit common. A 22K pullup to +5 is also connected to the input. Therefore, the contacts must have an open circuit shunt resistance greater than 100,000 ohms and a short circuit resistance less than 2000 ohms.

SUPERVISION

The TTM-1 is supervised in that a loss of power will cause a loss of communicator signal just as if the line were cut. A possible compromise attempt will result in a Trouble condition, which should be treated as an Alarm condition. When used for police connect basic line security, the cover of the conduit box must be tamper switch protected.

Please note that, if Normally Closed contacts are used, loss of connection to a contact causes the same result as having the contact opened, i.e. the TTM-1 transmits an Alarm tone.

3086-1 SPECIFICATIONS

| Connection Min supply Voltage Max Supply Voltage Supply Current | Terminal lugs 10 30 7.5mA @ 12v DC | Capacity Communication medium | Two contacts Two wire Telco - 2000 series or Twisted Pair direct line, 3000 series phone line compatible |
|--|--|---|--|
| Dry contact (input) Number of inputs Number of wires Minumum Current | 2 4 0.25 mA | Communication method Frequency range | unit also available Freq. Mod. 600Hz-1700Hz |
| Tone (output) Level | -6dB (0 dBm = 1mW) | Environmental Operating temperature Storage temperature Relative Humidity | 0 to 49 degrees C -25 to 70 degrees C Non-condensing 20 to 85% |
| Impedance Other features | 600 ohms | Dimensions (L x W x H) 3086-1 (PC board) | 4.0" × 2.5" × 1.0" 5.0" × 4.7" × 1.7" |
| | Isolation and lightning protection | TBX1 (enclosure) | 3.0 x 4.7 x 1.7 |
| States | Open (pulled to +5) Closed (tied to common) | Weight 3086-1 (PC board) TBX1 (enclosure) | 0.13 lb 0.52 lb |
| Input supervision | Refer to text | , , , | |

NOTES:

- 1. TTM-1 unit is comprised of a TBX1 Enclosure and a 95M3086-1 Printed Circuit Board
- 2. TTM-1 is compatible with TRM Receiver Module.
- 3. Conduit connection is required. The U.L.listed conduit boxes are:

| Hoffman | Wiegmann |
|--------------------------|---------------------|
| A-SE6x6x4 (screw cover) | SC664 (screw cover) |
| A-SE6x6x3 (hinged cover) | A663 (hinged cover) |

