

Alarm Line Modules

*Hirsch Alarm Line Modules provide high security line supervision and alarm masking functionality to DIGI*TRAC™ controllers.*

Features

- High Security Alarm Inputs
- 2% Line Supervision
- MELM May Be Located Within Sensor
- Monitors up to 3 Discrete Inputs
 - Alarm or Door Status
 - Alarm Masking or Request-to-Exit (RQE)
 - Tamper Alarm, Tamper Secure

Description

Hirsch DIGI*TRAC controllers use very stable digitally-processed analog inputs with 2% line supervision for high security alarm monitoring. A line supervision module (DTLM, MELM, or SBMS) is located at the door contact, alarm sensor, request-to-exit (RQE), or similar device to establish this supervision.

In lieu of “shunting,” which turns off supervision, Hirsch uses “alarm masking” for full-time supervision and reporting of line status — even during hours of authorized access. Conditions reported include:

- Alarm
- Secure
- RQE
- Short
- Open
- Noise

- Mask
- Tampering
- Line-Out-of-Spec
- Latch Monitor (option)

For doors with access control, both monitoring and alarm notification are provided for:

- Door Forced Open
- Door Open Too Long
- Auto Re-Lock Status

Specifications

Electrical

- Input 1: NO or NC (Alarm)
- Input 2: NO (RQE)
- Input 3: NC (Tamper- or Latch Monitor Option with CCM7.1x)
- Total Impedance: 10 Ohm maximum for alarm device contacts and cable
- Wiring Distances to DIGI*TRAC for 22 gauge twisted shielded pair:
 - DTLM1/MELM1: 5490 ft (1673 m)
 - DTLM2/MELM2: 3000 ft (914 m)
 - DTLM3/MELM3: 925 ft (282 m)

Physical

- Dimensions:
 - DTLM1: 2-1/8" L x 1-3/8" W x 3/8" H (5.5cm x 3.5cm x 1.1cm) each

- DTLM2: 2-7/8" L x 1-1/2" W x 3/8" H (7.5cm x 3.7cm x 1.1cm) each
- DTLM3: 3-5/8" L x 1-1/2" W x 3/8" H (9.3cm x 3.7cm x 1.1cm) each
- MELM1: 1" L x 1/2" Dia. (2.5cm x 1.3cm)
- MELM2: 1" L x 1/2" Dia. (2.5cm x 1.3cm)
- MELM3: 1" L x 1/2" Dia. (2.5cm x 1.3cm)
- SBMS3: 4-1/4" L x 1-1/2" W x 3/4" H (10.8 cm x 3.8 cm x 1.9 cm) each, with 3 ft. (92 cm) armored cable.

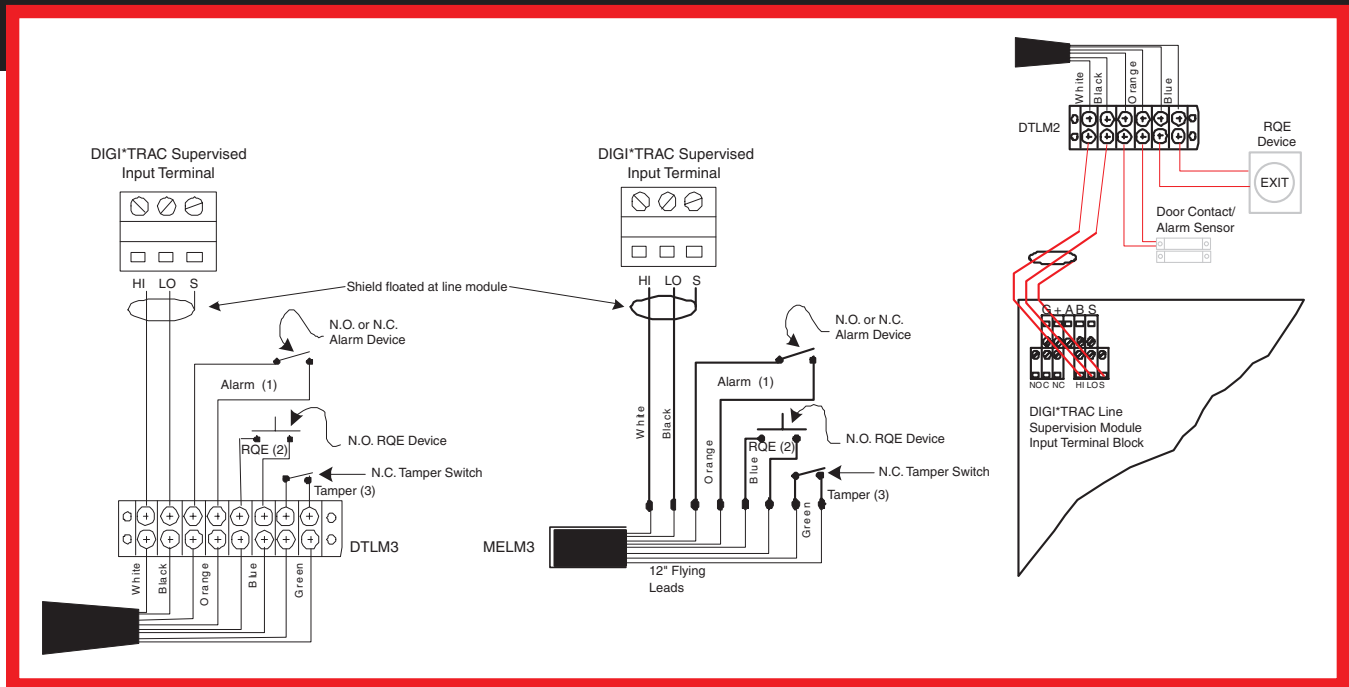
Shipping Weight:

- DTLM1: 1lb (.45kg)
- DTLM2: 1lb (.45kg)
- DTLM3: 1lb (.45kg)
- MELM1: 1lb (.45kg)
- MELM2: 1lb (.45kg)
- MELM3: 1lb (.45kg)
- SBMS3: 2lb (.9kg)
- Operating Temperature Range: 32° to 140°F (0° to 60°C)
- Relative Humidity: 0 to 90% non-condensing

Listings & Approvals

- UL 294 (ALVY) Access Control Systems Units
- UL 1076 Proprietary Burglar Alarm Systems Grade AA

Systems With Integrity



Typical Controller-to-Line Module Wiring Diagram

Ordering Information

Model #	Description	Comments
DTLM1	DIGI*TRAC Line Module 1	1 input for Alarm/Door monitoring. Enables Auto-Relock function on a door. Consists of MELM1 prewired to one side of a two row terminal block. Locate at door or device supervised.
DTLM2	DIGI*TRAC Line Module	2 inputs for Alarm/Door monitoring and alarm mask/RQE. Enables Auto-Relock function on a door. Consists of MELM2 prewired to one side of a two row terminal block. Locate at door or device supervised.
DTLM3	DIGI*TRAC Line Module 3	3 inputs for Alarm/Door monitoring, alarm mask/RQE and tamper. Enables Auto-Relock function on a door. Consists of MELM3 prewired to one side of a two row terminal block. Locate at door or device supervised.
MELM1	Miniature Embedded Line Module 1	1 input for Alarm/Door monitoring. Enables Auto-Relock function on a door. Includes 12" color coded flying leads. For installation within the body of most alarm sensors. Locate at door or device supervised.
MELM2	Miniature Embedded Line Module 2	2 inputs for Alarm/Door monitoring and alarm mask/RQE. Enables Auto-Relock function on a door. Includes 12" color coded flying leads. For installation within the body of most alarm sensors. Locate at door or device supervised.
MELM3	Miniature Embedded Line Module 3	3 inputs for Alarm/Door monitoring, alarm mask/RQE and tamper. Enables Auto-Relock function on a door. Includes 12" color coded flying leads. For installation within the body of most alarm sensors. Locate at door or device supervised.
SBMS3-2707A	Supervised Balanced Magnetic Switch with Line Module 3	Sentrol #2707A-L14 with integral MELM3. High-Security triple-biased door contact combines 2% multistage line supervision, RQE and TAMPER on a single pair of shielded wires. UL Listed for vaults and safes. Aluminum housing, 3ft armored cable. 3/16 to 5/8 inch gap. Includes Tamper plate.

Note: 2% line supervision is available on DTML3/MELM3. DTLM1/MELM1 and DTLM2/MELM2 provide 4% line supervision.



Specifications are subject to change without notice

Global Headquarters

1900 Carnegie Ave., Bldg. B, Santa Ana, CA 92705 USA

949-250-8888 Fax 949-250-7372

www.HirschElectronics.com

PDS003-203