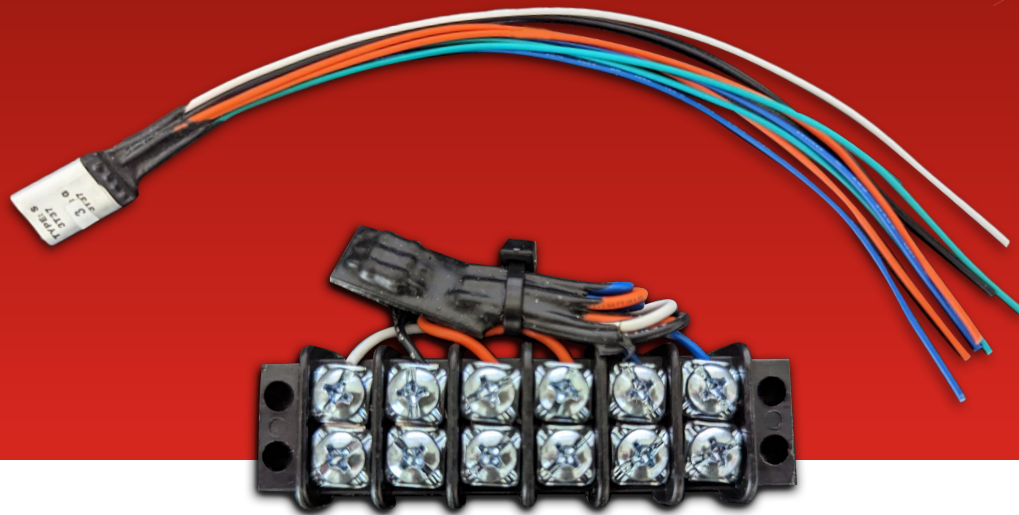




Alarm Line Modules

Miniature Embedded Line Module, DIGI*TRAC Line Module



Alarm Line Modules provide high-security line supervision and alarm masking functionality to Mx Controllers.

Hirsch Alarm Line Modules are the required intermediaries between alarm inputs and Mx Controllers. The Mx Controller digitally processes the analog measurement of the circuit resistance at an effective 100 times per second rate. The circuit measures variations in conditions and then reports any appropriate alarms upon detection.

A line supervision module (DTLM, MELM, HSS, or SBMS) is located at the door contact, alarm sensor, request-to-exit (RQE), or similar device to establish this supervision.

Input configuration in Velocity includes a variety of alarm conditions and customizations. The alarm points can be setup for monitoring, triggering actions, masking, fault detection, entry/exit delays, and tampers. Masked conditions include enabling or disabling of state change reporting while the alarm input is masked.

Monitors Door or Alarm Status

- Door forced open
- Door open too long

Customizable Alarm Points

- Rename inputs in Velocity
- Edit specific alarm events

Optional Inputs

- Request-to-exit
- Tamper latch monitor on DTLM/MELM3

Multiple Hardware Configurations

- Pigtails
- Terminal blocks

Alarm Line Modules

Specifications	
Electrical	Input 1: N.O. or N.C. (Alarm) Input 2: N.O. (RQE) Input 3: N.C. (Tamper- or Latch Monitor Option) Total Impedance: 10 Ohm maximum for alarm device contacts and cable Wiring Distances to DIGI*TRAC for 22 gauge twisted shielded repair: DTLM1/MELM1: 5490 ft (1673 m) DTLM/MELM2: 3000 ft (914 m) DTLM/MELM3: 925 ft (282 m)
Physical	Dimensions: DTLM1: 2-1/8 x 1-3/8 x 3/8 in (5.5 x 3.5 x 1.1 cm) each DTLM2: 2-7/8 x 1-1/2 x 3/8 in (7.5 x 3.7 x 1.1 cm) each DTLM3: 3-5/8 x 1-1/2 x 3/8 in (9.3 x 3.7 x 1.1 cm) each MELM1: 1 x 1/2 in (2.5 x 1.3 cm) MELM2: 1 x 1/2 in (2.5 x 1.3 cm) MELM3: 1 x 1/2 in (2.5 x 1.3 cm) SBMS3: 4-1/4 x 1-1/2 x 3/4 in (10.8 x 3.8 x 1.9 cm) each, with 3 ft (92 cm) armored cable Shipping Weight: DTLM1: 1lb (0.45 kg) DTLM2: 1lb (0.45 kg) DTLM3: 1lb (0.45 kg) MELM1: 1lb (0.45 kg) MELM2: 1lb (0.45 kg) MELM3: 1lb (0.45 kg) SBMS3: 2lb (0.9 kg) Operating Temperature Range: 32° to 140° F (0° to 60° C) Relative Humidity: 0 to 90% non-condensing
Listings and Approvals	UL 294 (ALVY) Access Control Systems Units UL 1076 Proprietary Burglar Alarm Systems

Ordering Information for Alarm Line Modules

Model	Description	Comments
MELM1	Miniature Embedded Line Module 1	<ul style="list-style-type: none"> • One input for Alarm/Door monitoring. • Enables Auto-Relock function on a door. Includes 12-inch 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	<ul style="list-style-type: none"> • Two inputs for Alarm/Door monitoring and alarm mask/RQE. • Enables Auto-Relock function on a door. Includes 12-inch 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	<ul style="list-style-type: none"> • Three inputs for Alarm/Door monitoring, alarm mask/RQE and tamper or latch monitor. • Enables Auto-Relock function on a door. Includes 12-inch color coded flying leads. • For installation within the body of most alarm sensors. • Locate at door or device supervised.
DTLM1	DIGI*TRAC Line Module 1	<ul style="list-style-type: none"> • One 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	<ul style="list-style-type: none"> • Two 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	<ul style="list-style-type: none"> • Three inputs for Alarm/Door monitoring, alarm mask/RQE and tamper or latch monitor. • 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.
SBMS3-2707A	Supervised Balanced Magnetic Switch with Line Module 3	<ul style="list-style-type: none"> • 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, 3-foot armored cable. 3/16- to 5/8-inch gap. • Includes Tamper plate.
SBMS-L2HSS	Supervised Balance Switch with Line Module 3	<ul style="list-style-type: none"> • Magnasphere Supervised Balanced Switch. • UL listed for vaults and safes. • Suitable for indoor and outdoor use. • Aluminum housing, 3-foot armored cable. 3/16 to 5/8 gap. • Includes Tamper plate. • Meets UL 634 Level 2 high security standards

NOTE: 2% line supervision is available on DTML3/MELM3. DTML1/MELM1 and DTLM2/MELM2 provide 4% line supervision.
 Technical data is subject to change without notice.

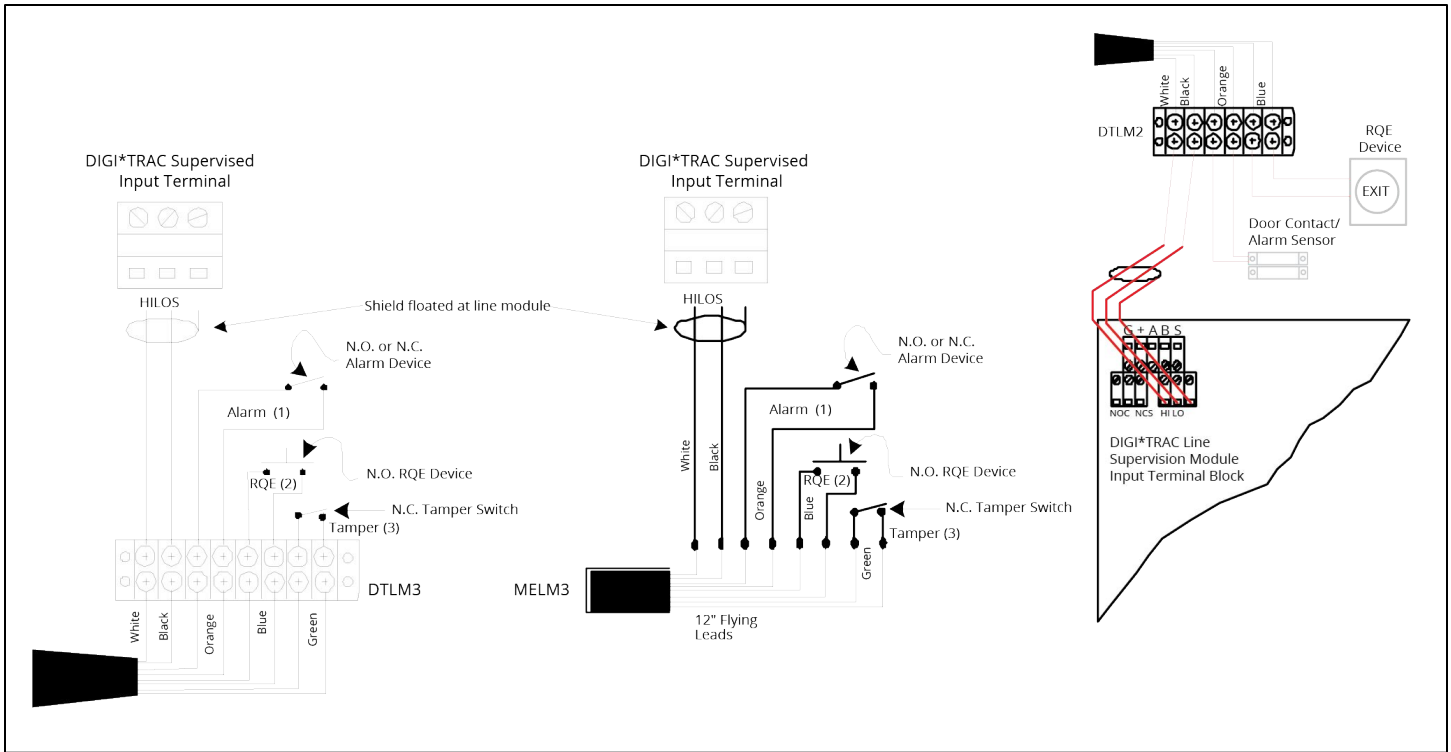


Figure 1: Typical Controller-to-Line Module Wiring Diagram