

## Models 8409 & 8410 Intelligent Modules

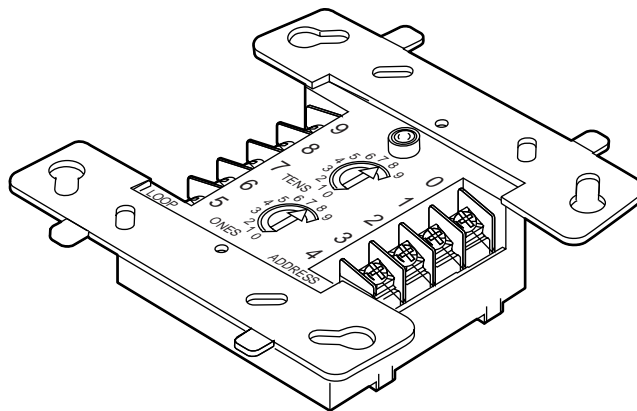
- SEMS screws for easy wiring
- Panel controlled status LED
- Analog communications
- Rotary address switches
- Low standby current
- Mounts in standard 4" junction box
- UL and CSFM listed, MEA pending

### Description

Faraday's intelligent module products are designed to meet a wide range of applications. Relay and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors, and more. Each module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards. Modules are addressed with easy-to-use rotary code switches. Full size modules mount in standard 4" x 4" x 2-1/8" junction box. Wiring terminals are easily accessible for troubleshooting purposes.

The **8409 Relay Module** contains two isolated sets of Form-C contacts, which operate as a DPDT switch. The module allows the control panel to switch these contacts on command.

The **8410 Control Module** provides a supervised NAC monitoring of wiring to load devices that require an external power supply to operate, such as horns, strobes, or bells. It is capable of Styles Y and Z supervision. Upon command from the control panel, the 8410 will disconnect the supervision and connect the external power supply across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned on. The external power supply is always relay isolated from the communication loop, so that a trouble condition on the power supply will never interfere with the rest of the system. Full analog measurement of the supervised wiring is transmitted back to the panel and can be used to detect impedance changes or other special test functions.



Model 8409 or 8410 Intelligent Module

### General Specifications

Operating Voltage: 15-32 Vdc

Communication Line Loop Impedance: 40  $\Omega$  max.

Temperature Range: 32° to 120°F (0° to 49°C)

Relative Humidity: 10% to 93% NC

Dimensions: 4.25" (W) x 4.65" (H) x 1.1" (D)

Shipping Weight: 6.3 oz. (196g)

### Specifications: 8409

Standby Current: 300 $\mu$ A @ 24 Vdc (one communication every 5 sec. with LED enabled)

LED Current: 5.5 mA (with LED latched on)

Relay Contact Ratings:

3.0A @ 30 Vdc resistive

0.9A @ 110 Vdc resistive

0.9A @ 125 Vac resistive

0.5A @ 125 Vac inductive (PF=.35)

0.7A @ 75 Vac inductive (PF=.35)

### Specifications: 8410

Standby Current: 400 $\mu$ A max @ 24 Vdc (one communication every 5 sec. with 47K EOL)

550 $\mu$ A max @ 24 Vdc (one communication every 5 sec. with EOL <1K)

End-of-Line Resistance: 47 K $\Omega$  (included)

## Ordering Information

Order No	Description
8409 .....	(M500R) Relay Module
8410 .....	(M500S) Supervised Control Module

**Note:** These devices are supplied for Faraday by System Sensor®.



An ISO 9001  
Certified Company  
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