

# 2WIRE Module

Control Module for Conversion of Hardwired Mechanical Actuator to Actuator Requiring Power Using Existing Wiring

## INSTALLATION INSTRUCTIONS

### Section 1

#### General Description

The 2WIRE Module is a control module which provides an easy and inexpensive way to upgrade an existing hardwired mechanical actuator to a touchless or capacitive touch actuator that requires power, such as the 216 or NexGen series, without the need for additional wiring.



Upgrading hardwired automatic door actuators to actuators that require power has traditionally been an arduous process. Most actuators that require power use a four wire connection – two wires to provide power to the actuator, and two wires for activation of the door control. Mechanical actuators require only two wires for activation of the door control. Due to this, upgrading required running two additional wires, which could prove costly and time consuming. Using the 2WIRE Module eliminates the need for additional wiring, making the conversion simple and inexpensive!

The 2WIRE Module is designed to install in the door header and requires a 12–24V AC or DC power input. Up to four actuators can be powered using the 2WIRE Module.

Actuators such as the 216 series infrared touchless or NexGen series can be purchased separately, or as part of a retrofit kit. The input power wires for the actuators connect to the 12V DC Out terminals of the 2WIRE Module. When any of the actuators are triggered, the relay output on the 2WIRE Module will change state, activating the door control.

### Section 2

#### Basic Installation

##### WIRING CONNECTIONS FOR POWERED ACTUATORS

- 1) Make the appropriate electrical connections to the actuator switch assembly - existing two wires from the mechanical actuator that is being replaced, to input voltage wires of actuator requiring power. (For example: when using the 216 series, the 2 Red wires would be used).
- 2) Insulate unused wires from actuators requiring power.
- 3) Install the actuator requiring power to the mounting box.

- 4) Connect other end of existing two wire cable to the 2WIRE Module as shown in Figure 1. (terminals 4 and 5, or 6 and 7)
- 5) Adjust the settings of the actuators requiring power for desired performance.
- 6) Install face plate for actuator.
- 7) Connect relay output of 2WIRE Module to door control activation terminals.
- 8) Test actuator to ensure proper operation.

### Section 3

#### Technical Data

Model.....	2WIRE Module
Input Power.....	12-24V AC or DC
Input Current.....	Approx. 100 mA @ 18V AC per switch
Current Draw.....	100mA at 24V
Output Connections.....	8" 22 AWG Leads
Output Rating.....	Form C, Rated at 3 Amps
Detection Scheme.....	Coded Modulated Carrier
Codes Available.....	Automatic Self Changing ID Coding
Activation Time.....	<0.03 seconds
Temperature Rating.....	-13° F to 140° F (-25° C to 60° C)
Weight.....	<0.25 lbs.
Physical Size.....	2"W x 2 3/8"L x 3/4"D

### Section 4

#### Warranty

MS SEDCO guarantees this product to be free from manufacturing defects for 1 year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for 1 year from the date of shipment from our factory. If, during the first year, our motion detector or support device fails to operate and has not been tampered with or abused, the unit can be returned prepaid to factory and it will be repaired free of charge. After 1 year, the unit will be repaired for a nominal service charge. **This limited warranty is in lieu of all other warranties expressed or implied, including any implied warranty of merchantability, and no representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damages arising from any claimed breach of warranty as to its products or services.**

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FIGURE 1—Wiring Diagram

