216, 216-L, 216-N

Active Infráred "Touchless" Switch

Section 1

General Description

The 216 Series "touchless" switches are active infrared devices designed for hands-free activation of automatic door operators or other access control products. The 216 switch assembly will fit in a variety of locations from a 1 3/4" door frame to a single or 2-gang or junction electrical box. Various size surface mounting boxes are also available from the factory. Three standard face plate sizes are available:

- 216: 4 1/2" x 4 1/2" stainless steel (fits single, 2gang, junction electrical boxes)
- 216-L: 2 3/4" x 4 1/2" stainless steel (fits single gang electrical boxes)
- 216-N: 1 11/16" x 4 1/2" stainless steel (fits 1 3/4" door frames)

Section 2

Basic Installation

SINGLE GANG ELECTRICAL BOX: 216 & 216-L

- 1) Install the electrical box (purchased separately) in its intended location.
- Set the unit for its intended operating mode via the jumpers on the side of the switch assembly: Fail Close (factory setting), Fail Open or Toggle (Figure 1).
- 3) Make the appropriate electrical connections to the switch assembly--4 wires are required (Figure 2).
- 4) Attach the switch assembly to the electrical box with the two (2) 6-32 x 1/2" screws provided.
 MAX TORQUE 4 inch.-lbs. DO NOT OVER TIGHTEN!
- Adjust for range and time delay via the potentiometers on the front of the switch assembly (Figure 3).
- 6) Attach face plate with the $6-32 \times 3/8"$ screws provided ensuring that the backside of the face plate lens and the foam gasket on the front of the switch assembly are less than 1/4" apart (Figure 4).

2-GANG ELECTRICAL BOX OR JUNCTION BOX: 216

- 1) Install the electrical box (purchased separately) in its intended location.
- 2) Attach the adaptor ring provided (see below) to the electrical box.



3) Set the unit for its intended operating mode via the jumpers on the side of the switch assembly: Fail



INSTALLATION INSTRUCTIONS

Close (factory setting), Fail Open or Toggle (Figure 1).

- 4) Make the appropriate electrical connections to the switch assembly--4 wires are required (Figure 2).
- Attach the switch assembly to the adaptor ring (mounted to the electrical box in step 2) with the 6-32 x 1/2" screws provided.

MAX TORQUE 4 inch.-lbs. DO NOT OVER TIGHTEN!

- 6) Adjust for range and time delay via the potentiometers on the front of the switch assembly (Figure 3).
- 7) Attach face plate with the $6-32 \times 3/8"$ screws provided ensuring that the backside of the face plate lens and the foam gasket on the front of the switch assembly are less than 1/4" apart (Figure 4).

DOOR FRAME: 216-N

 Make a cutout in the door frame at the intended location. Drill and tap 2 mounting holes (see below).



- Set the unit for its intended operating mode via the jumpers on the side of the switch assembly: Fail Close (factory setting), Fail Open or Toggle (Figure 1).
- 3) Make the appropriate electrical connections to the switch assembly-4 wires are required (Figure 2).
- 4) Mount the switch assembly in the cutout and attach with the 6-32 x 1/2" screws provided.

MAX TORQUE 4 inch.-lbs. DO NOT OVER TIGHTEN!

- 5) Adjust for range and time delay via the potentiometers on the front of the switch assembly (Figure 3).
- 6) Attach face plate with the $6-32 \times 3/8"$ screws provided ensuring that the backside of the face plate lens and the foam gasket on the front of the switch assembly are less than 1/4" apart (Figure 4).

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INSTALLATION INSTRUCTIONS

Section 3

Technical Data

Model	216, 216-L, 216-N
Input Power	12-24V AC or DC
Input Current	Approx. 100 MA @ 18V AC
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
Reaction Time	0.05 - 1 second
Operating Distance	6" to 30"
Temperature Rating	13°F to 140°F
	(-25°C to 60°C)
Weight	<0.25 lbs.
Physical Size	1 5/16"L x 4"W x 1 1/4"H

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 our 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.

Questions? Call us at 1-317-842-2545 or visit us online at www.mssedco.com.



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