



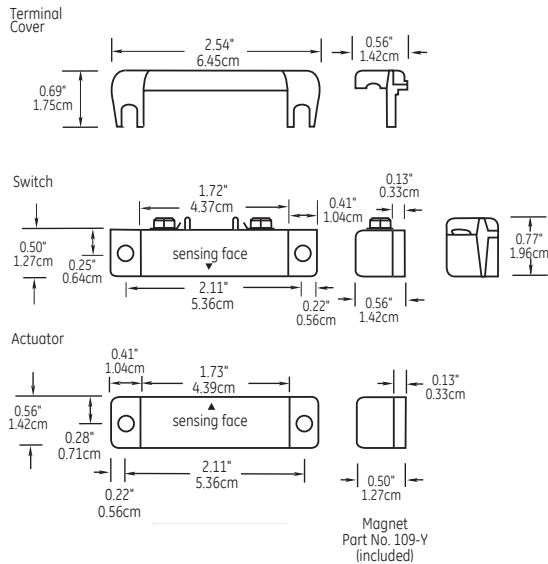
# Non-Contact Interlock/Position Switch

## Applications

- Economical Position Sensing
- Terminal Requirement
- Non-Wash Down Environments

## General Specifications

|                   |  |
|-------------------|--|
| Enclosure         | ABS Plastic  |
| Temperature Range | -40°F to 180°F (-40°C to 80°C)                                     |
| Environmental     | Hermetically Sealed Contact Switch<br>Encapsulated in Polyurethane |
| NEMA Rating       | 1  |
| Protection Class  | IP 62  |
| Response Time     | 1 msec   |
| Life Cycles       | 100,000 Under Full Load;<br>Up to 200,000,000 Under Dry Circuit    |
| Connection        | Screw Terminals  |
| UL/CUL            | All Models   |



File E 122942

INTERLOCK SWITCH  
100 SERIES

## Order Information Electrical Specifications

| Part Number | Contact <sup>1</sup> Config. | Load Rating |     | Switching Voltage, Max. |              | Switching Current, Max.  |                          | Contact Resistance | Sense Range <sup>2</sup> |              | Break Range Nominal | Terminal Type |
|-------------|------------------------------|-------------|-----|-------------------------|--------------|--------------------------|--------------------------|--------------------|--------------------------|--------------|---------------------|---------------|
|             |                              | AC          | DC  | AC                      | DC           | AC                       | DC                       |                    | Nominal                  | Nominal      |                     |               |
| 109-3Y      | N.C.                         | 100VA       | 84W | 120V (@0.8A)            | 28V (@3.0A)  | 3.0A (@34V) <sup>3</sup> | 3.0A (@28V) <sup>3</sup> | 1.0 Ohms           | 0.5" (1.3cm)             | 1.2" (3.0cm) | #6 screw            |               |
| 109-6Y      | N.O.                         | 25VA        | 25W | 120V (@0.2A)            | 120V (@0.2A) | 1.0A (@25V)              | 1.0A (@25V)              | 0.2 Ohms           | 1.0" (2.5cm)             | 2.0" (5.0cm) | #6 screw            |               |
| 109-7Y      | N.O.                         | 100VA       | 84W | 120V (@0.8A)            | 28V (@3.0A)  | 3.0A (@34V) <sup>3</sup> | 3.0A (@28V) <sup>3</sup> | 1.0 Ohms           | 0.5" (1.3cm)             | 1.2" (3.0cm) | #6 screw            |               |
| 109-Y       | Actuator Only                |             |     |                         |              |                          |                          |                    |                          |              |                     |               |

**Warning— Each electrical rating is an individual maximum and cannot be exceeded!**

<sup>1</sup> Configuration with actuator away from the switch

<sup>2</sup> Proximity of ferrous materials usually reduces sense range — typically by 50%. The shape and type of material cause a wide diversity of effects. Testing is required to determine actual sense range for specific applications.

<sup>3</sup> Rated at 3.0A for 6,000 cycles only. Other ratings are at 100,000 cycles.

