



# Non-Contact Interlock/Position Switch

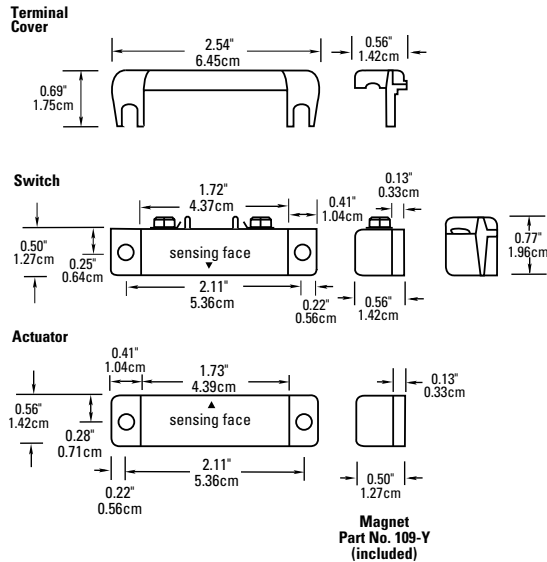
## 109 GuardSwitch

### 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><br>Config. | Load Rating |     | Switching Voltage, Max. |              | Switching Current, Max.  |                          | Contact<br>Resistance | Sense Range <sup>2</sup><br>Nominal | Break Range<br>Nominal | Terminal<br>Type |
|-------------|---------------------------------|-------------|-----|-------------------------|--------------|--------------------------|--------------------------|-----------------------|-------------------------------------|------------------------|------------------|
|             |                                 | AC          | DC  | AC                      | DC           | AC                       | DC                       |                       |                                     |                        |                  |
| 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.