Door Switches

mars

NEMA1 to NEMA9 Models

atmosphere is everything

Door Switch Number	Description	Max Voltage	Phase	Max HP	Amperage	Poles	NEMA Rating
Mechanical Switches – controller not required for air curtains under switch electrical limits							
99-014	Combination Plunger/Roller	250V	1	1	20 A	1	NEMA 1
99-270	Washdown Roller	250V	1	1	20 A	1	NEMA 4X
99-016	Explosion Resistant Roller	250V	1	¾	15 A	1	NEMA 7 and 9
Magnetic Switches – controller required							
99-018	Commercial, Plastic, Surface Mounted	24V	1	-	½ A	1	NEMA 1
99-125	Industrial, Metal, Surface Mounted	120V	1	-	3 A	1	NEMA 1
99-124	Industrial, Metal, Floor Mounted	120V	1	-	3 A	1	NEMA 1

Note: DO NOT ground the green wire (for 99-124 and 99-125) or COM terminal (for all others). This is the switch common, not ground or neutral. Please refer to the wiring instructions included with the switches.
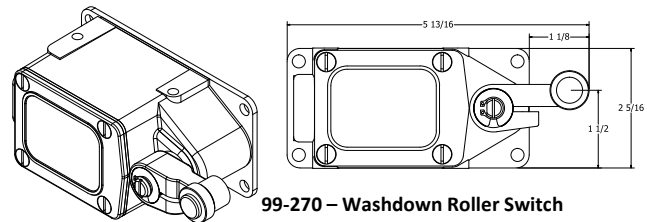
Mechanical Switch Features:

Combination Roller/Plunger Switch (99-014)
❖ UR (UL Recognized) and rated for NEMA 1 applications (field installed by others)
❖ Used to enable automatic control of air curtain(s): turns air curtain on when door opens and off when door closes
❖ Suitable for various applications and installation types
❖ Maximum ratings of 250V, 20A, and 1HP (see individual model specs for details)
  o If the air curtain exceeds any of these ratings, or if it is three phase, a Motor Control Panel (MCP) or solid state controller is required

❖ Single pole (1P) switch with normally closed (NC) and normally open (NO) contacts
  o Only normally closed and common (COM) terminals are provided with screws for wiring
❖ Requires less than 1/8" of travel and 2 lbs. of force on plunger to activate switch
❖ 1/2" FPT conduit connection (field wired by others)
❖ (2) 11/64" mounting holes*
*Do not use a fastener larger than a #6 sheet metal screw or a #8 Machine screw to mount this door limit switch. Larger screws may damage the switch and void the warranty.
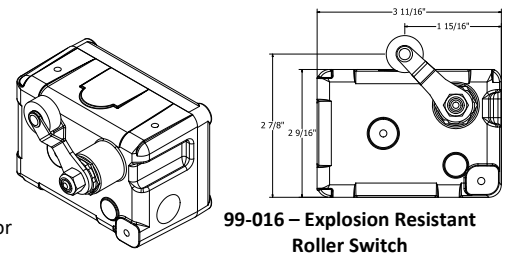❖ 1 year parts warranty for all switches

Washdown Roller Switch (99-270)
❖ UR (UL Recognized) and rated for NEMA4X/IP55
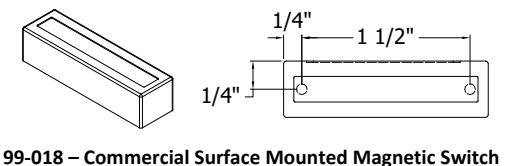
Explosion Resistant Roller Switch (99-016)
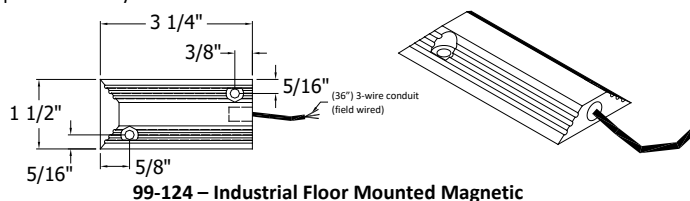❖ UR (UL Recognized) and rated for NEMA 7 & 9 (Class 1, Division 1, Group D)
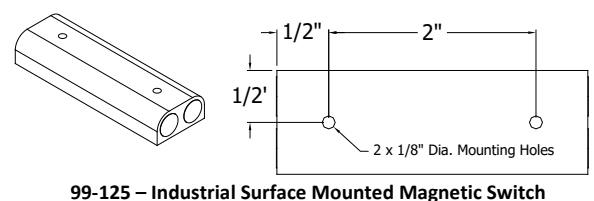
Magnetic Switch Features:
❖ UR (UL Recognized) and rated for NEMA 1 applications (field installed by others)
❖ Used to enable automatic control of air curtain(s): turns air curtain on when door opens and off when door closes
❖ Typical applications for each switch:
  o 99-018: for neat trim and finish in commercial applications
  o 99-125: for heavy duty industrial applications
  o 99-124: for roll-up doors with forklift traffic
❖ A Motor Control Panel (MCP) or solid state controller is required for use with all magnetic door switches (except for electric heated air curtain)
  o For 99-018, MCP-24V adder is required for use with MCP
❖ Single pole (1P) switch with normally closed (NC) and normally open (NO) contacts
❖ Maximum acceptable gap of 1/8" distance (commercial) or 1/2" (industrial) between magnets to activate switch
❖ Lightweight and easy to install
❖ 1 year parts warranty for all switches

99-014 – Combination Plunger/Roller Switch

99-270 – Washdown Roller Switch

99-016 – Explosion Resistant Roller Switch

99-018 – Commercial Surface Mounted Magnetic Switch

99-124 – Industrial Floor Mounted Magnetic

99-125 – Industrial Surface Mounted Magnetic Switch