



## **Electromagnetic Door Holders**

*Reliable Door Control for Emergency Release*



MEC electromagnetic door holders are designed for use with self-closing fire and smoke barrier doors. They usually use independently or with any fire or smoke detector system. Typical installations include hospitals, schools, and public buildings. Electromagnetic door holders can also be operated by manual release for safety and convenience.

### **Standard Features**

- Standard voltage AC or DC
- Typical high holding force up to 80 lbs.
- No residual magnetism
- Swivel/Self-adjustable armature plate
- Flush/Floor/Surface mounted
- Extension rods for increased operational alignment

### **Patents, Approvals, and Listings**

- UL listed: R21907
- NF S 61-937 compliant (GD840S, GD850F, GD860S)
- BS EN 1155 (GD640S, GD840S, GD850F, GD860S)

#### **Notes:**

Classification Code : 3, 5, 3, 1, 1, 3.

Standard number: BS EN 1155.

The Electromagnetic Door Holder should not be positioned at such a point where the door can be held open at angles less than 65°.

- \* No Maintenance Required.
- \* Power Size (Size 3).
- \* Fixing Position  
(Tested at 1,000 mm from Pivot / Hinge).



BS EN1155



NF S 61-937



# Electromagnetic Door Holders

## ANSI Standard Electromagnetic Door Holders

| Models                                                                                     | Voltage                   | Holding Force (lbs.) | Manual Release Button | Mount   | Finish/ Color   | LED | Bond Sensor Output | Armature Plate Type |                           |
|--------------------------------------------------------------------------------------------|---------------------------|----------------------|-----------------------|---------|-----------------|-----|--------------------|---------------------|---------------------------|
| *GD900F   | 24 VAC/DC<br>*(12 VAC/DC) | 80                   | ●                     | Floor   | Black           | —   | —                  | Square              | Swivel                    |
| *GD900WS  | 24 VAC/DC<br>*(12 VAC/DC) | 80                   | ●                     | Surface | Stainless steel | —   | —                  | Square              | Swivel                    |
| *GD900W   | 24 VAC/DC<br>*(12 VAC/DC) | 80                   | ●                     | Flush   | Stainless steel | —   | —                  | Square              | Swivel                    |
| GD950                                                                                      | 12~24VDC                  | 80                   | —                     | Flush   | Silver/ Black   | ●   | ●                  | Round               | Swivel or Self-adjustable |
| GD950S                                                                                     | 12~24VDC                  | 80                   | —                     | Surface | Silver/ Black   | ●   | ●                  | Round               | Swivel or Self-adjustable |
| GD970     | 12/24VDC<br>110VAC/220VAC | 55                   | —                     | Flush   | Silver/ Black   | —   | —                  | Round               | Swivel                    |
| GD970S                                                                                     | 12/24VDC<br>110VAC/220VAC | 55                   | —                     | Surface | Silver/ Black   | —   | —                  | Round               | Swivel                    |
| GD990    | 12/24VDC<br>110VAC/220VAC | 55                   | —                     | Flush   | Stainless steel | —   | —                  | Round               | Swivel                    |
| GD990S                                                                                     | 12/24VDC<br>110VAC/220VAC | 55                   | —                     | Surface | Stainless steel | —   | —                  | Round               | Swivel                    |

## European Standard Electromagnetic Door Holders

| Models                                                                                      | Voltage             | Holding Force (lbs.) | Manual Release Button | Mount   | Finish/ Color   | LED | Armature Plate Type |                           |
|---------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------------|---------|-----------------|-----|---------------------|---------------------------|
| *GD640S  | 24 VDC<br>*(12 VDC) | 70                   | ●                     | Flush   | Stainless steel | ●   | Square              | Swivel                    |
| *GD840S  | 24 VDC<br>*(12 VDC) | 80                   | ●                     | Surface | Black           | ●   | Round               | Swivel or Self-adjustable |
| *GD850F  | 24 VDC<br>*(12 VDC) | 80                   | ●                     | Floor   | Black           | ●   | Round               | Swivel or Self-adjustable |
| *GD860S  | 24 VDC<br>*(12 VDC) | 80                   | ●                     | Surface | White           | ●   | Round               | Swivel or Self-adjustable |

## Weatherproof Electromagnetic Door Holder

| Models | Voltage                         | Holding Force (lbs.) | Manual Release Button | Mount   | Finish/ Color | Bond Sensor Output | Armature Plate Type |       |
|--------|---------------------------------|----------------------|-----------------------|---------|---------------|--------------------|---------------------|-------|
| *RM90  | 24VDC<br>*(12VDC)<br>(12~24VDC) | 550                  | —                     | Surface | Silver/Black  | ●                  | Round               | Fixed |

\*Special order for 12VDC (12VAC/DC) operation



# Electromagnetic Door Holders

## ANSI Standard Electromagnetic Door Holders Dimensions

|                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                         |                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>GD900F</p> <p>Manual release button</p> <p>Dimensions: 2 3/16" (55mm) width, 1 11/16" (43mm) height, 4 1/2" (113.8mm) total height, 2 3/4" (70mm) depth, 2 9/16" (65mm) base width.</p>                                            | <p>GD900WS</p> <p>Dimensions: 2 3/16" (55mm) width, 1 11/16" (43mm) height, 4 9/16" (116mm) total height, 2 3/4" (70mm) depth, 1 3/4" (43.7mm) base width, 3/16" (4mm) mounting hole offset.</p>                                        | <p>GD900W</p> <p>Dimensions: 2 3/16" (55mm) width, 1 11/16" (43mm) height, 4 9/16" (116mm) total height, 2 3/4" (70mm) depth, 1 3/4" (43.7mm) base width.</p>   |
| <p>GD950</p> <p>LED</p> <p>Dimensions: 2 3/4" (69.5mm) width, 4 1/2" (114mm) height, 1 9/16" (40.5mm) depth, 2" (51.5mm) base height, 3 9/16" (90mm) base width.</p> <p>Options: A (2 1/8" (54mm) width), B (2" (51.5mm) height).</p> | <p>GD950S</p> <p>LED</p> <p>Dimensions: 2 3/4" (69.5mm) width, 4 1/2" (114mm) height, 1 15/16" (49.5mm) depth, 2" (51.5mm) base height, 3 9/16" (90mm) base width.</p> <p>Options: A (2 1/8" (54mm) width), B (2" (51.5mm) height).</p> | <p>GD970</p> <p>Dimensions: 2 3/4" (69.5mm) width, 4 1/2" (114mm) height, 1 9/16" (40.5mm) depth, 1 13/16" (45.5mm) base height, 3 9/16" (90mm) base width.</p> |
| <p>GD970S</p> <p>Dimensions: 2 3/4" (69.5mm) width, 4 1/2" (114mm) height, 1 13/16" (45.5mm) base height, 3 9/16" (90mm) base width.</p>                                                                                              | <p>GD990</p> <p>Dimensions: 2 3/4" (70mm) width, 4 9/16" (116mm) height, 1 9/16" (40.5mm) depth, 1 13/16" (45.5mm) base height, 3 9/16" (90mm) base width.</p>                                                                          | <p>GD990S</p> <p>Dimensions: 2 3/4" (70mm) width, 4 9/16" (116mm) height, 2 1/16" (52.8mm) depth, 1 13/16" (45.5mm) base height, 3 9/16" (90mm) base width.</p> |



# Electromagnetic Door Holders

## European Standard Electromagnetic Door Holders Dimensions

|               |               |
|---------------|---------------|
| <p>GD640S</p> | <p>GD840S</p> |
| <p>GD850F</p> | <p>GD860S</p> |

## Weatherproof Electromagnetic Door Holder Dimensions

|                    |
|--------------------|
| <p>RM90 Series</p> |
|--------------------|

Notes:

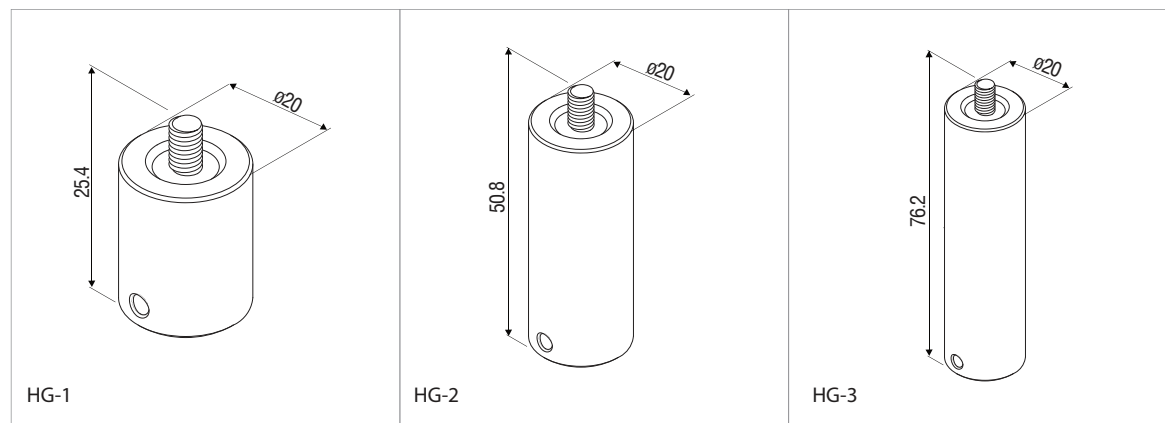
A: Self-adjustable armature plate

B: Swivel armature plate

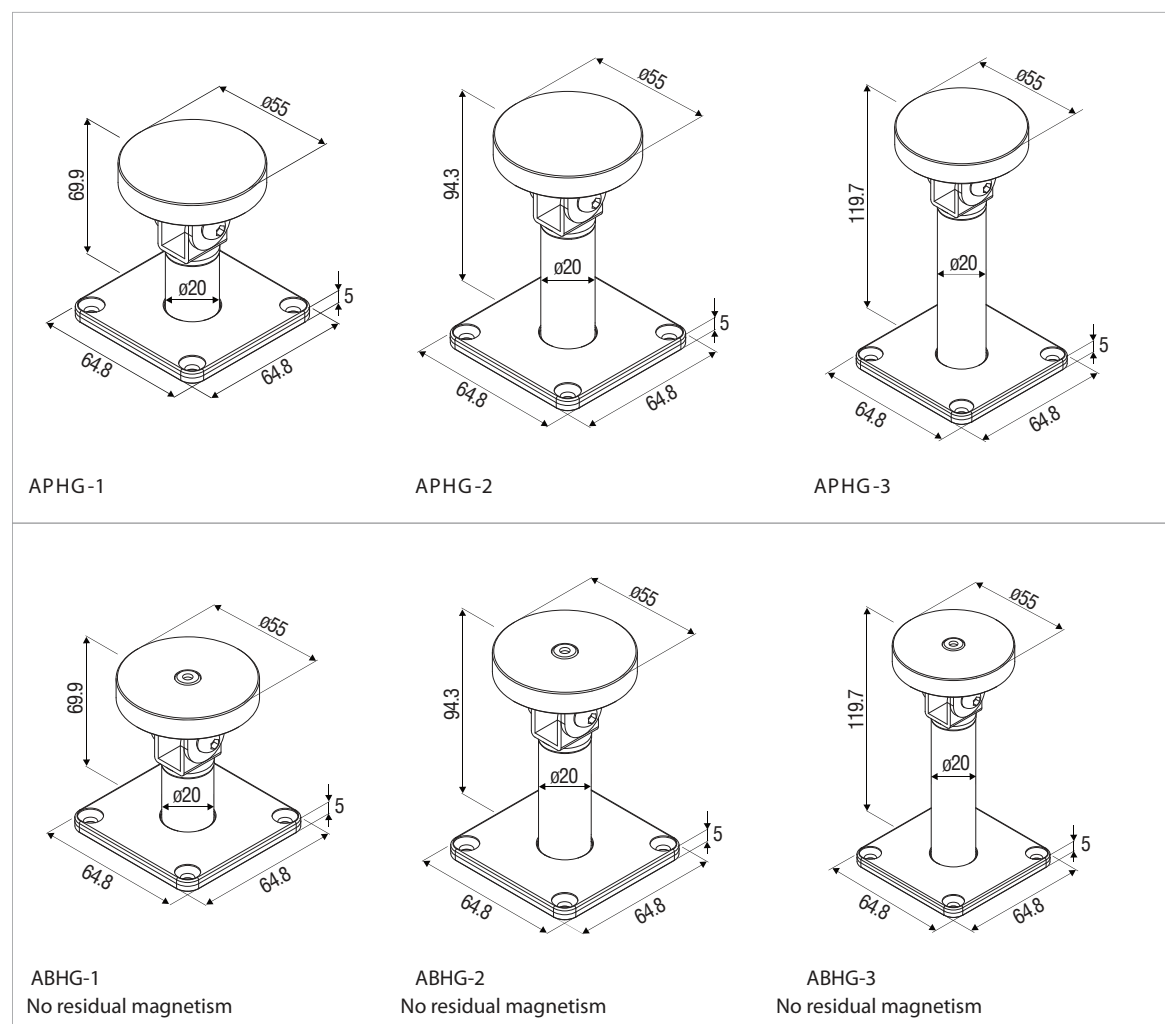


## Extension Rods for Square Type Armature Plates

Extension rod(s) may be required to ensure proper installation by providing increased reach for the Armature Plate.



## Extension Rod Applications (Square Type Armature Plate Only)



All dimensions in mm