

Electromagnetic Door Holders

Reliable Door Control for Emergency Release



GEM 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



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 *(12 VAC/DC)	80	●	Floor	Black	—	—	Square	Swivel
*GD900WS 	24 VAC/DC *(12 VAC/DC)	80	—	Surface	Stainless steel	—	—	Square	Swivel
*GD900W 	24 VAC/DC *(12 VAC/DC)	80	—	Flush	Stainless steel	—	—	Square	Swivel
GD970 	12/24VDC	32.9	—	Flush	Silver/Black	—	—	Round	Swivel
	110VAC/220VAC	38.8							
GD970S 	12/24VDC	32.9	—	Surface	Silver/Black	—	—	Round	Swivel
	110VAC/220VAC	38.8							
GD990 	12/24VDC	32.9	—	Flush	Stainless steel	—	—	Round	Swivel
	110VAC/220VAC	38.8							
GD990S 	12/24VDC	32.9	—	Surface	Stainless steel	—	—	Round	Swivel
	110VAC/220VAC	38.8							

European Standard Electromagnetic Door Holders

Models	Voltage	Holding Force (lbs.)	Manual Release Button	Mount	Finish/Color	LED	Bond Sensor Output	Armature Plate Type	
*GD640S 	24 VDC *(12 VDC)	70	●	Flush	Stainless steel	●	—	Square	Swivel
*GD840S 	24 VDC *(12 VDC)	80	●	Surface	Black	●	—	Round	Swivel or Self-adjustable
*GD850F 	24 VDC *(12 VDC)	80	●	Floor	Black	●	—	Round	Swivel or Self-adjustable
*GD860S 	24 VDC *(12 VDC)	80	●	Surface	White	●	—	Round	Swivel or Self-adjustable
*RM90	24VDC *(12VDC) (12~24VDC)	550	—	Surface	Silver/Black	—	●	Round	Fixed

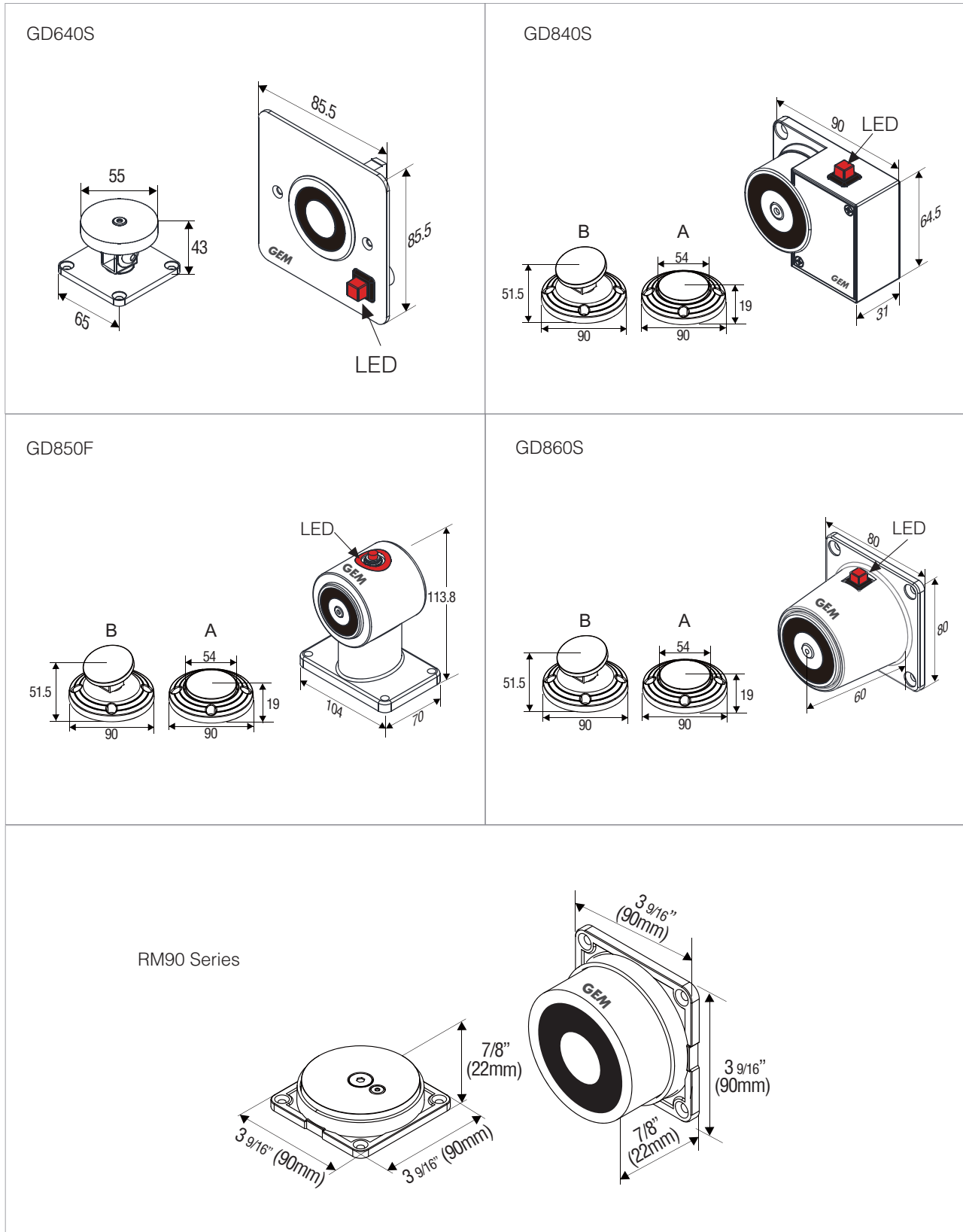
*Special order for 12VDC (12VAC/DC) operation

ANSI Standard Electromagnetic Door Holders Dimensions

<p>GD900F</p> <p>Manual release button</p>	<p>GD900WS</p>	
<p>GD900W</p>	<p>GD970</p>	
<p>GD970S</p>	<p>GD990</p>	<p>GD990S</p>

Magnetic Door Holders

European Standard Electromagnetic Door Holders Dimensions

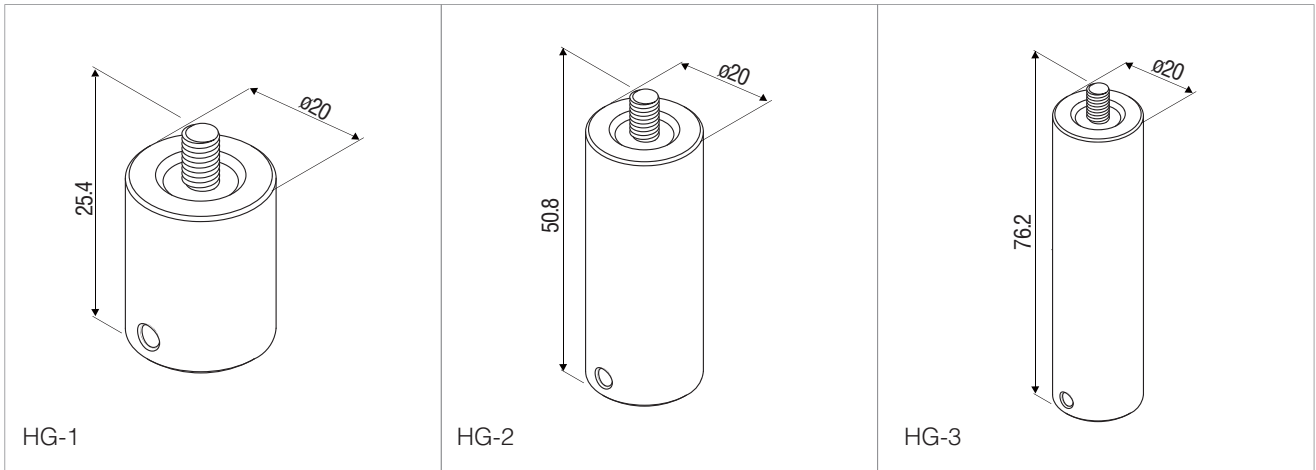


Notes:

- 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.

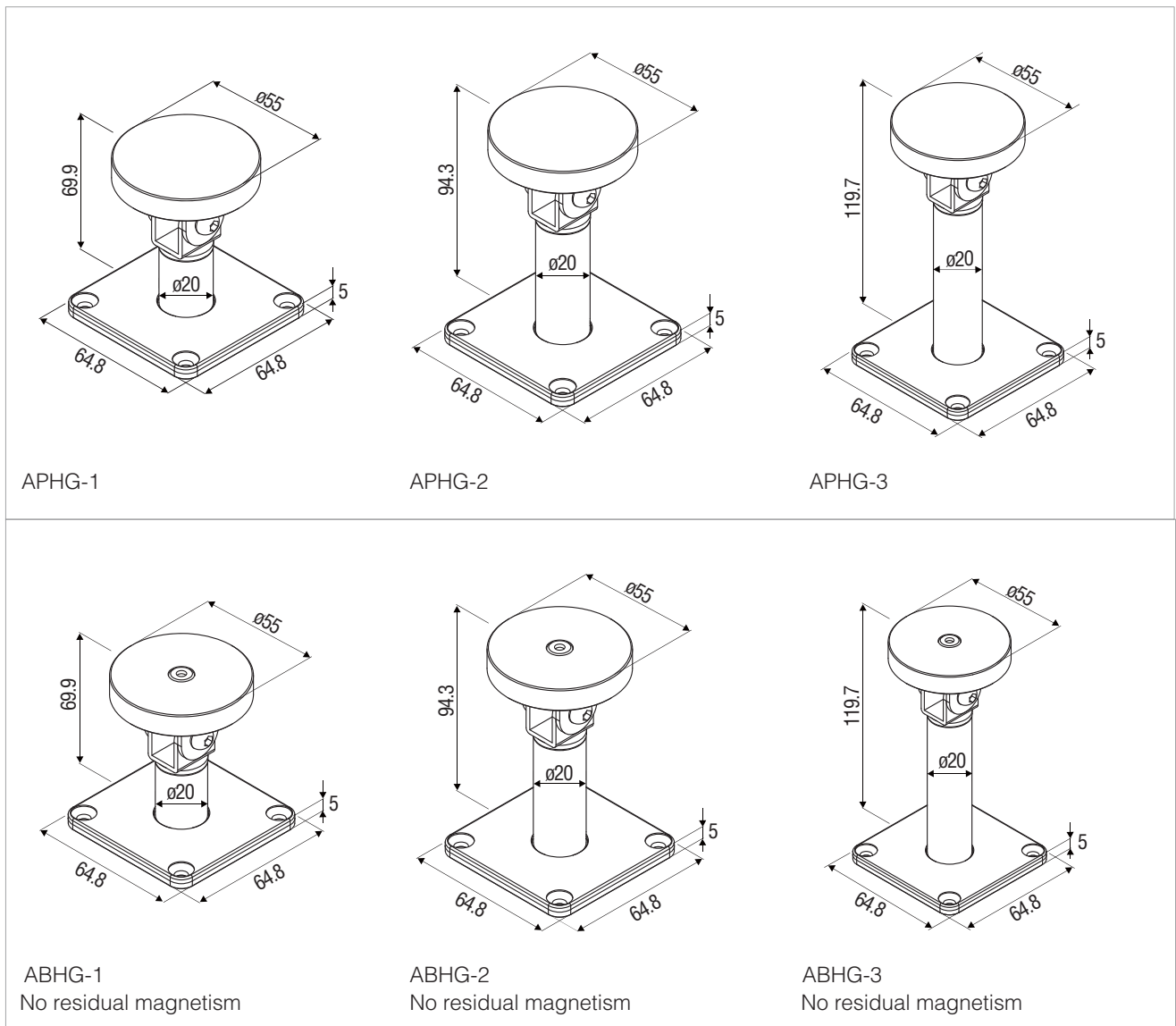


HG-1

HG-2

HG-3

Extension Rod Applications (Square Type Armature Plate Only)



APHG-1

APHG-2

APHG-3

ABHG-1

No residual magnetism

ABHG-2

No residual magnetism

ABHG-3

No residual magnetism

All dimensions in mm