

Electromagnetic Door Holders

Reliable Door Control for Emergency Release



GD840S

GD850F

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 for easy installation
- Flush/Floor/Surface mounted
- Extension rods for increased operational alignment
- Manual release button allows to release the door at any time

Patents, Approvals, and Listings

- UL 228, ULC C228 listed: R21907 (GD900 series)
- NF S 61-937 compliant (GD840S, GD850F, GD860S)



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ANSI Standard Electromagnetic Door Holders

Models	Voltage	Current Draw	Holding Force (lbs.)	Manual Release Button	Mount	Finish/Color	LED	Bond Sensor	Armature Plate Type	
*GD900F 	24 VAC/DC *(12 VAC/DC)	120mA/12VDC 60mA/24VDC	80	●	Floor	Black	—	—	Square	Swivel
*GD900W 	24 VAC/DC *(12 VAC/DC)	120mA/12VDC 60mA/24VDC	80	—	Flush	Stainless steel	—	—	Square	Swivel
*GD900WS 	24 VAC/DC *(12 VAC/DC)	120mA/12VDC 60mA/24VDC	80	—	Surface	Stainless steel	—	—	Square	Swivel
*GD900WE	24 VAC/DC *(12 VAC/DC)	120mA/12VDC 60mA/24VDC	80	●	Flush	Stainless steel	●	—	Square	Swivel
*GD900WES	24 VAC/DC *(12 VAC/DC)	120mA/12VDC 60mA/24VDC	80	●	Surface	Stainless steel	●	—	Square	Swivel
GD950	12/24VDC	130mA/12VDC 80mA/24VDC	80	—	Flush	Silver Black	●	●	Round	Swivel
GD950S	12/24VDC	130mA/12VDC 80mA/24VDC	80	—	Surface	Silver Black	●	●	Round	Swivel
GD970 	12/24VDC	130mA/14VDC 145mA/24VDC	32.9	—	Flush	Silver	—	—	Round	Swivel
	110VAC/220VAC		38.8							
GD970S 	12/24VDC	70mA/110VAC 50mA/220VAC	32.9	—	Surface	Silver	—	—	Round	Swivel
	110VAC/220VAC		38.8							
GD990 	12/24VDC	130mA/14VDC 145mA/24VDC	32.9	—	Flush	Stainless steel	—	—	Round	Swivel
	110VAC/220VAC		38.8							
GD990S 	12/24VDC	70mA/110VAC 50mA/220VAC	32.9	—	Surface	Stainless steel	—	—	Round	Swivel
	110VAC/220VAC		38.8							

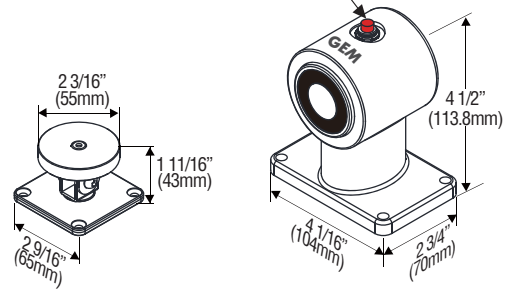
*Special order for 12VAC/DC operation

ANSI Standard Electromagnetic Door Holder Dimensions

GD900F



Manual release button



GD900W

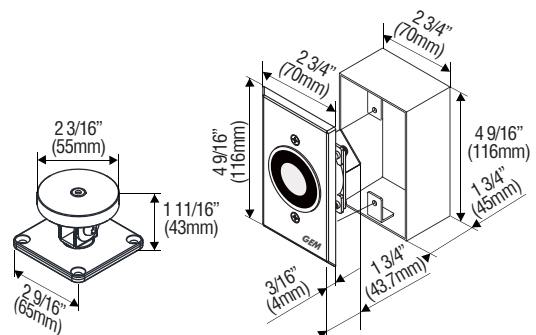


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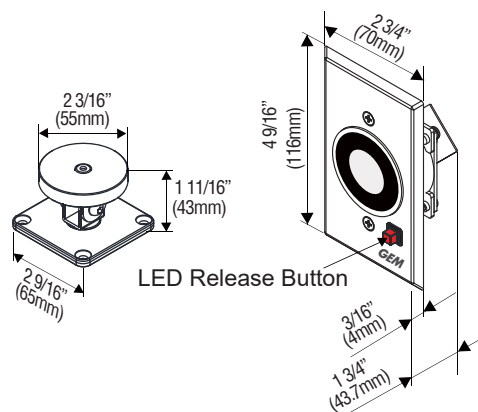
Optional Back Box for GD900W & GD900WE



GD900WS

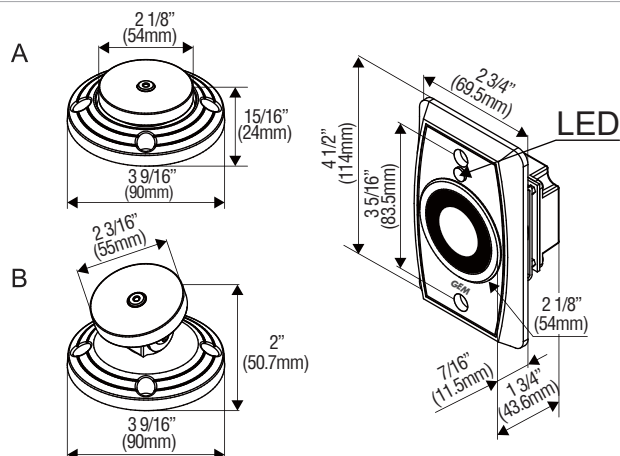


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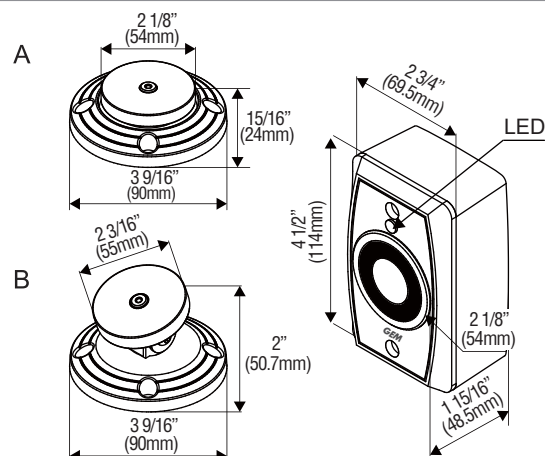


ANSI Standard Electromagnetic Door Holder Dimensions

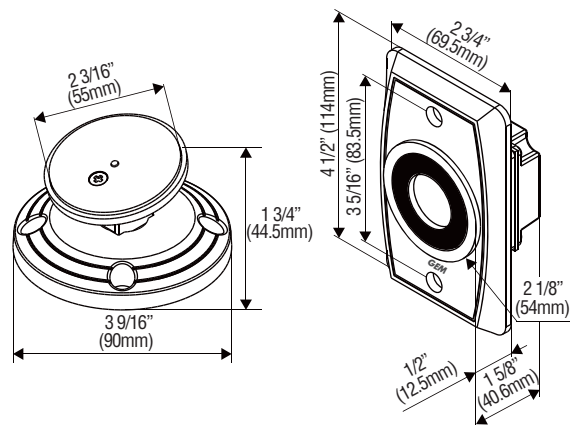
GD950



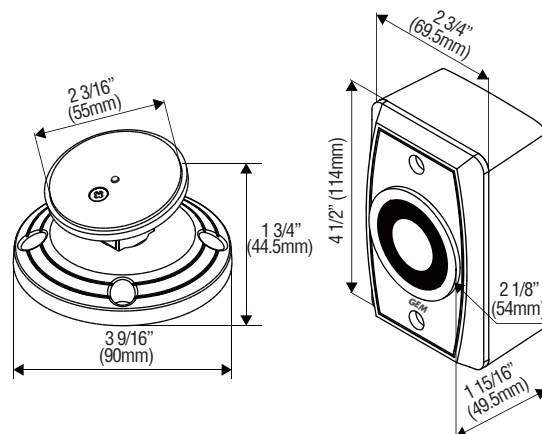
GD950S



GD970

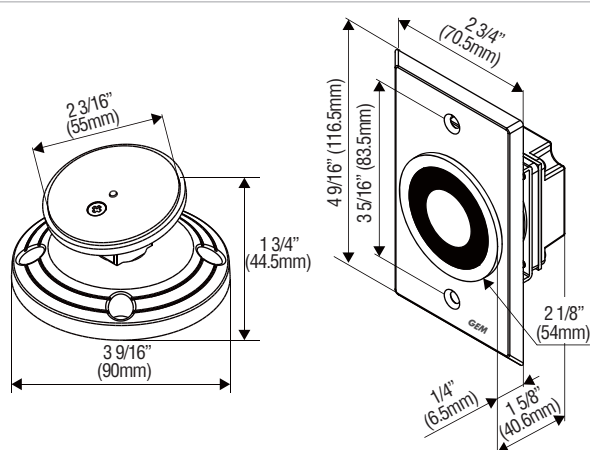


GD970S

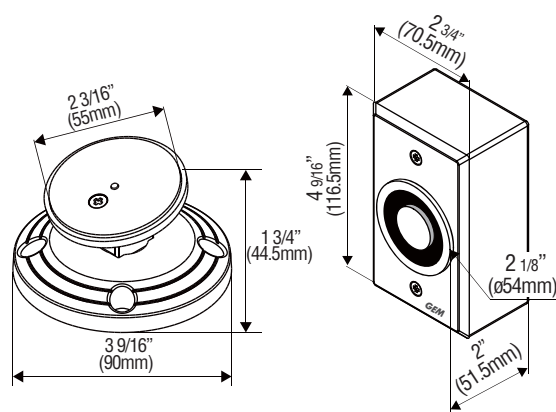


ANSI Standard Electromagnetic Door Holder Dimensions

GD990



GD990S



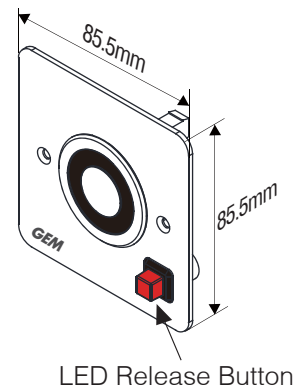
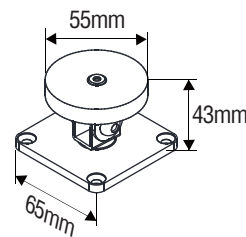
European Standard Electromagnetic Door Holders

Models	Voltage	Current Draw	Holding Force (lbs.)	Manual Release Button	Mount	Finish/Color	LED	Bond Sensor	Armature Plate Type	
*GD640S	24 VDC *(12 VDC)	60mA/24VDC	70	●	Flush Surface	Stainless steel	●	—	Square	Swivel
*GD840S	24 VDC *(12 VDC)	70mA/24VDC	80	●	Surface	Black	●	—	Round	Swivel or Self-adjustable
*GD850F	24 VDC *(12 VDC)	90mA/24VDC	80	●	Floor	Black	●	—	Round	Swivel or Self-adjustable
*GD860S	24 VDC *(12 VDC)	70mA/24VDC	80	●	Surface	White	●	—	Round	Swivel or Self-adjustable
*RM90	24VDC *(12VDC) Dual 12/24 VDC	250mA/24VDC 200mA/12VDC 100mA/24VDC	550	—	Surface	White	—	Optional	Square	Fixed

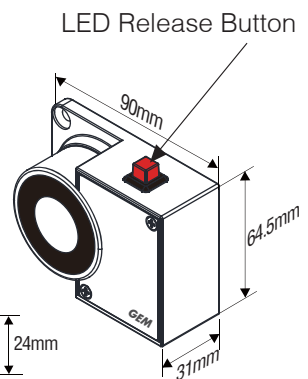
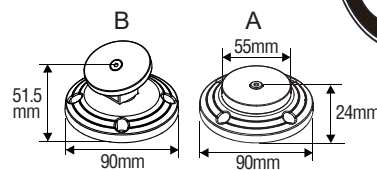
*Special order for 12VDC operation

ANSI Standard Electromagnetic Door Holder Dimensions

GD640S



GD840S

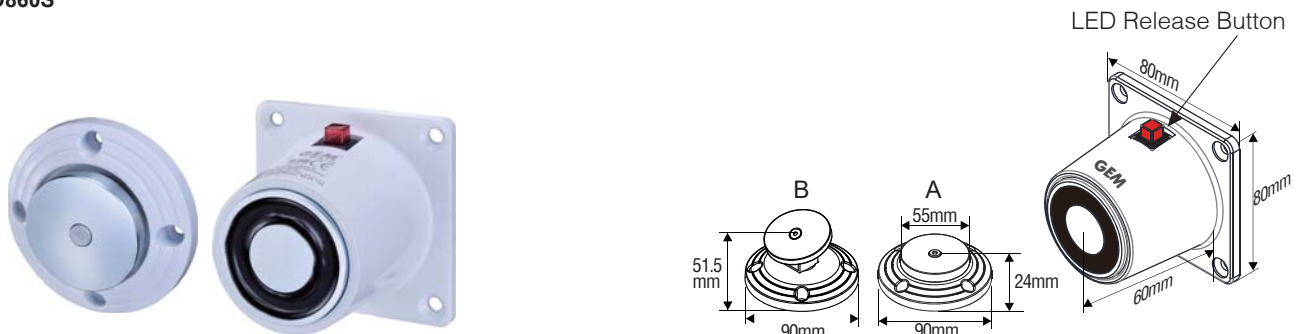


European Standard Electromagnetic Door Holder Dimensions

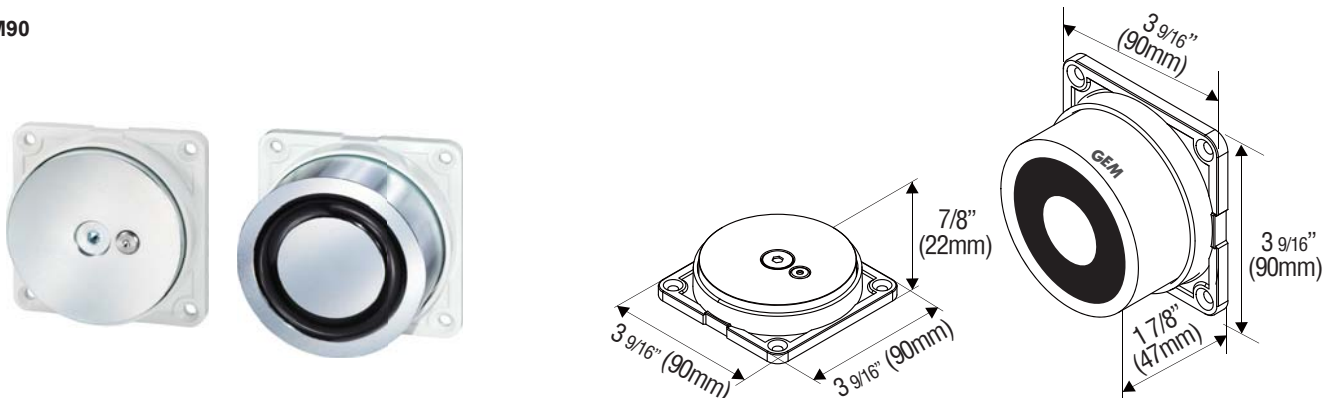
GD850F



GD860S



RM90



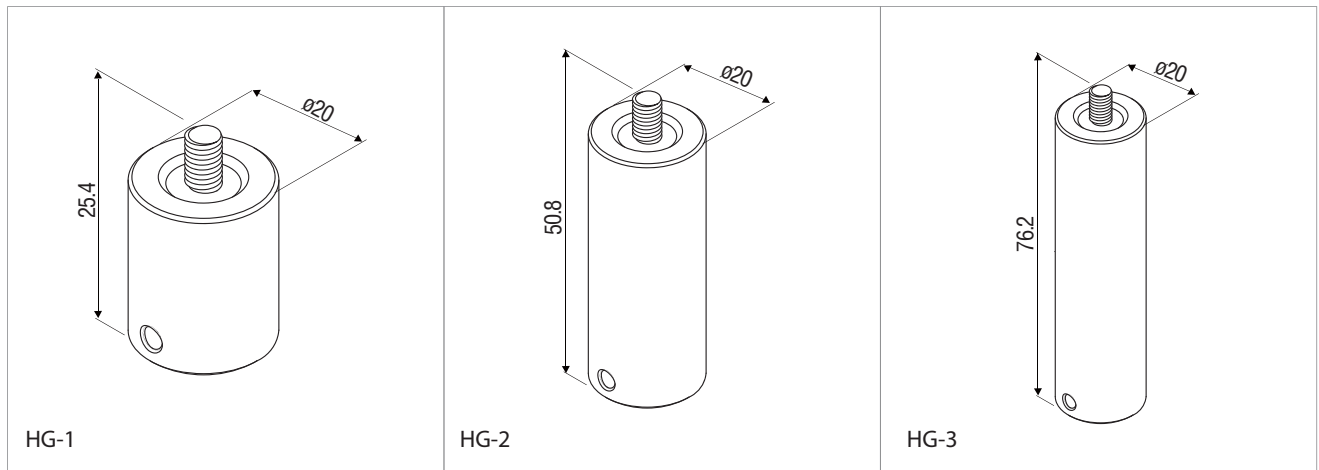
Notes:

A: Self-adjustable armature plate

B: Swivel armature plate

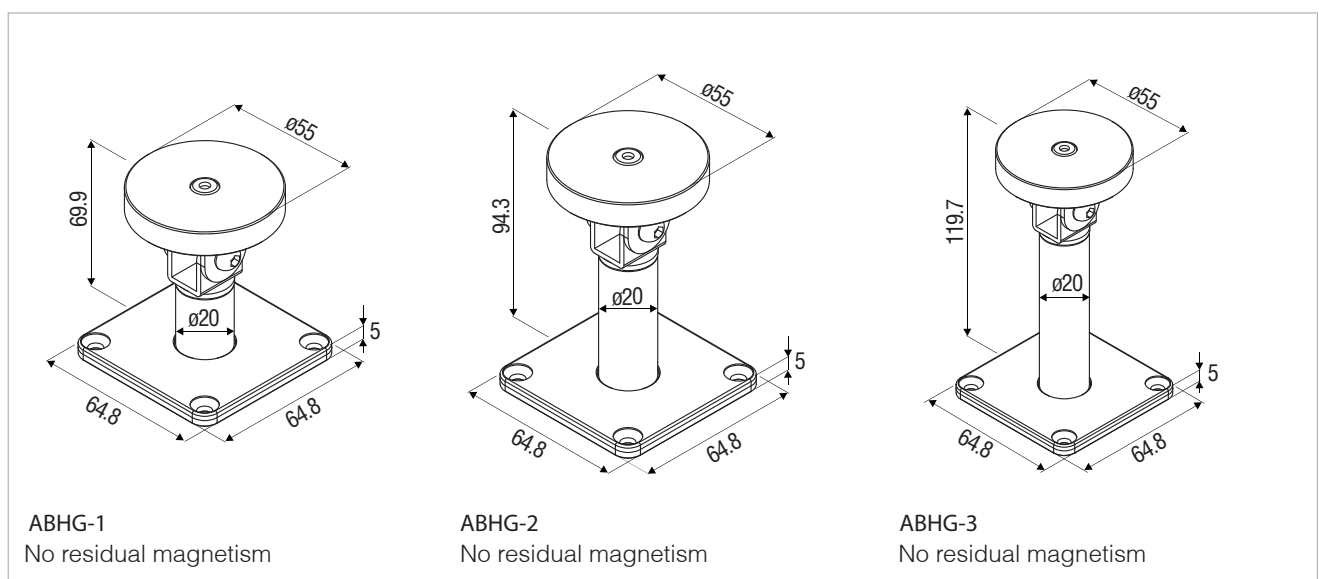
Extension Rods for Square Type Armature Plates

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



Note: RM90 is not available for use with extension rod.

Extension Rod Applications (Square Type Armature Plate Only)



All dimensions in mm