

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)



GIANNI INDUSTRIES, INC.

Tel: +886-2-2267-7986 Fax: +886-2-2267-9876
www.gianni.com.tw inquiry1@gianni.com.tw

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 | | | | | | | |

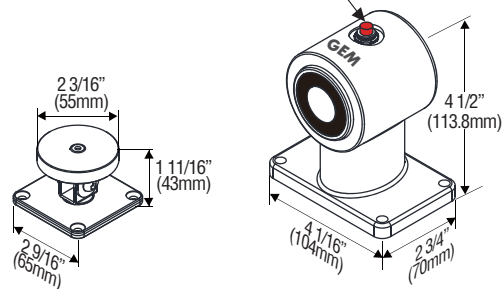
*Special order for 12VAC/DC operation

ANSI Standard Electromagnetic Door Holder Dimensions

GD900F



Manual release button



GD900W

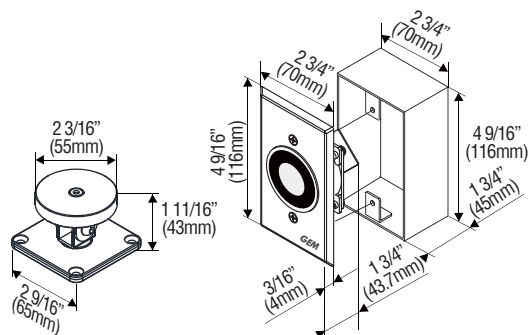


SMB-050

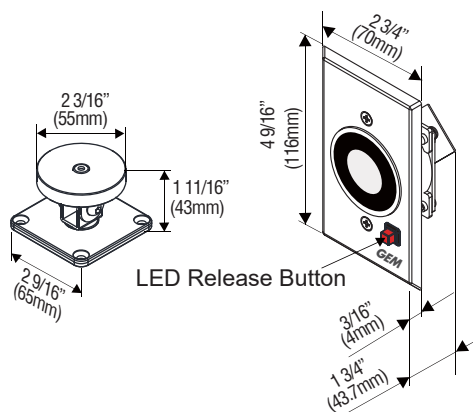
Optional Back Box for GD900W & GD900WE



GD900WS

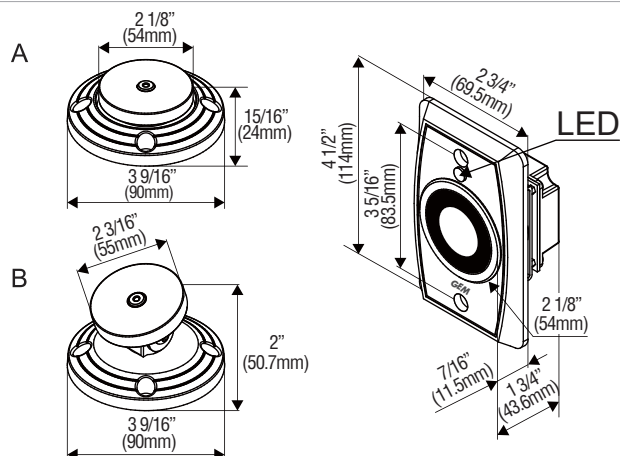


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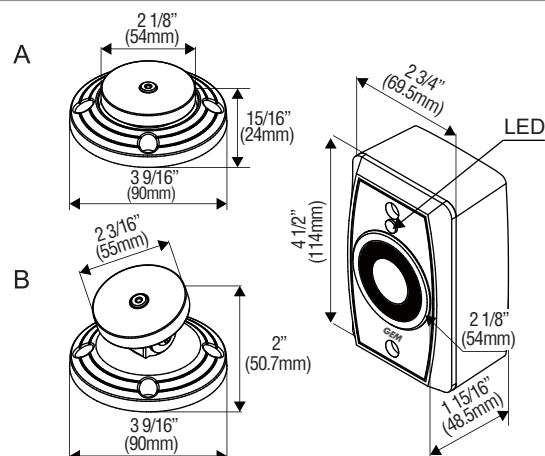


ANSI Standard Electromagnetic Door Holder Dimensions

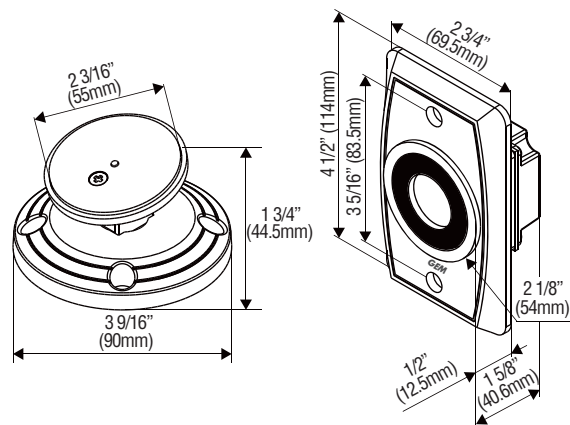
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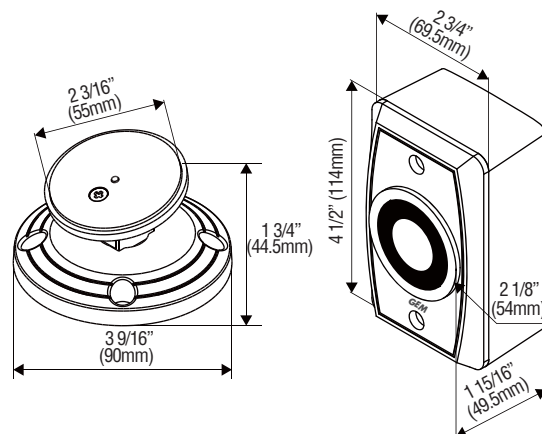
GD950S



GD970

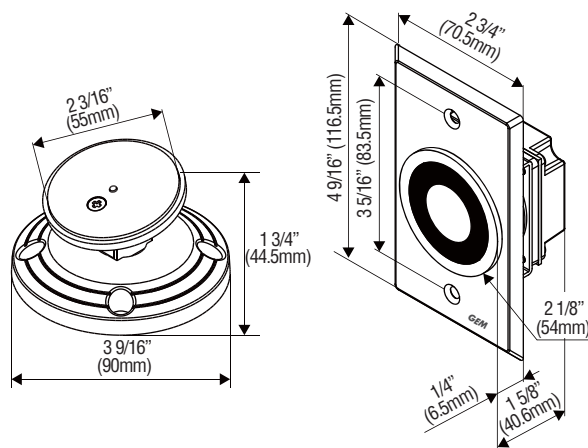


GD970S

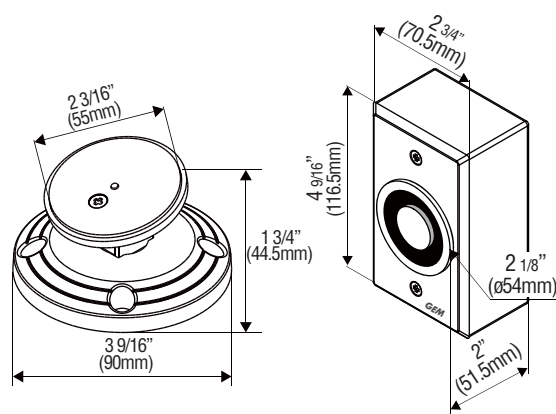


ANSI Standard Electromagnetic Door Holder Dimensions

GD990



GD990S



Warranty

The product is warranted against defects in material and workmanship while used in normal service for a period of 1 year from the date of sale to the original customer. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

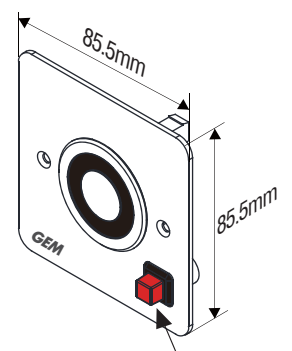
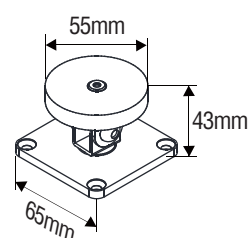
European Standard Electromagnetic Door Holders

| 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

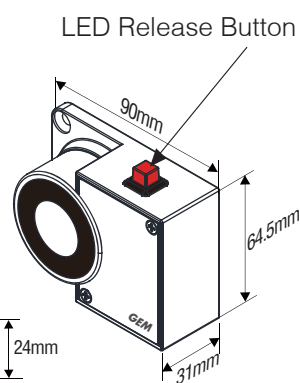
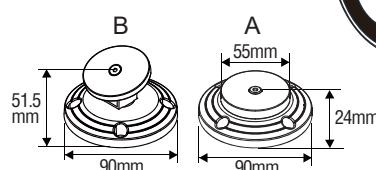
ANSI Standard Electromagnetic Door Holder Dimensions

GD640S



LED Release Button

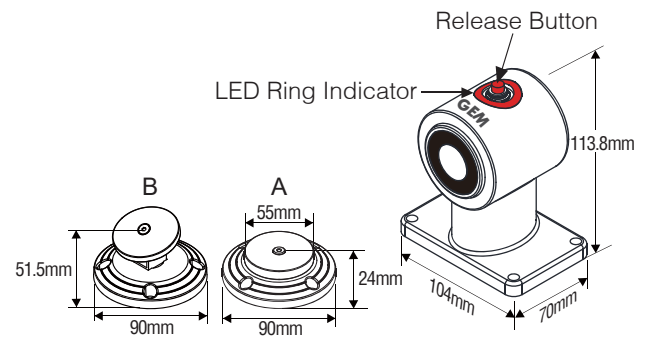
GD840S



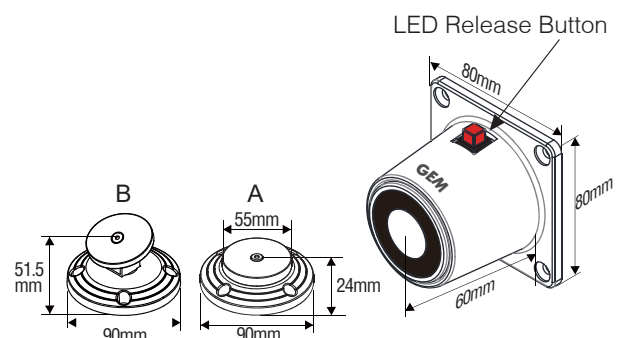
LED Release Button

European Standard Electromagnetic Door Holder Dimensions

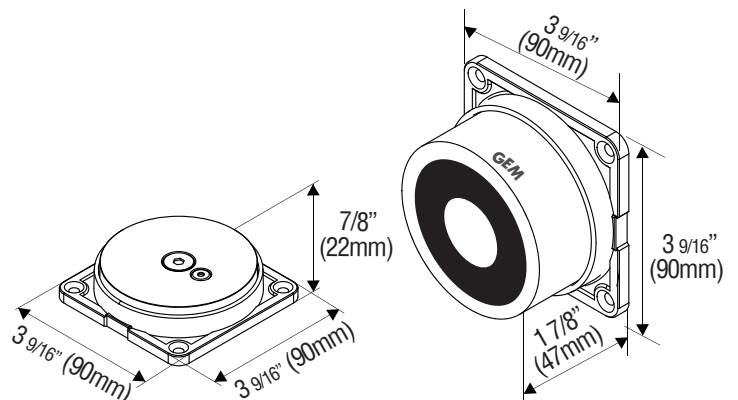
GD850F



GD860S



RM90



Notes:

A: Self-adjustable armature plate

B: Swivel armature plate

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