

# GIANNI

Special Catalogue



**Innovative Designs  
Craftsmanship  
& Commitment to Quality**



# GIANNI

Gianni Industries, Inc.

Gianni Industries, Inc. (GEM®) stands as a global leader in the manufacture of high-quality access control products. With a legacy spanning over three decades, we specialise in electromagnets and electric strikes across diverse applications. Our dedication to innovative design and craftsmanship has earned us recognition from customers worldwide with products available in over 70 countries.

Our commitment to achieving the highest standards of quality is evidenced by our multiple CE and UL certifications, bolstered by a talented R&D team and our inhouse UL standard testing lab. Additionally, we hold over 120 patents in major markets including the US, Germany, UK, France, and Australia.

As a trusted leader in the access control industry, GIANNI consistently delivers unparalleled security solutions tailored to meet the evolving needs of customers.

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GEM-800 is an electromagnetic lock that features patented mounting with increased thickness for the screw hole at each end to secure the lock body with more stability and strength. The 800lb magnetic lock series is complete with a range of optional features and brackets.

### Standard Features

- Reversible Magnet (Single, Unmonitored)
- Patented Mounting Plate with Increased Stability
- Anodized Aluminium Casing (US28)
- Dual Voltage (Auto Select)
- No Residual Magnetism – Instant Release
- Optional Brackets for Versatile Installations
- Optional Bi-Colour Status LED (Square & Oval Options)
- Optional: Bond Sensor/Door Status/Time Delay/Door Alarm

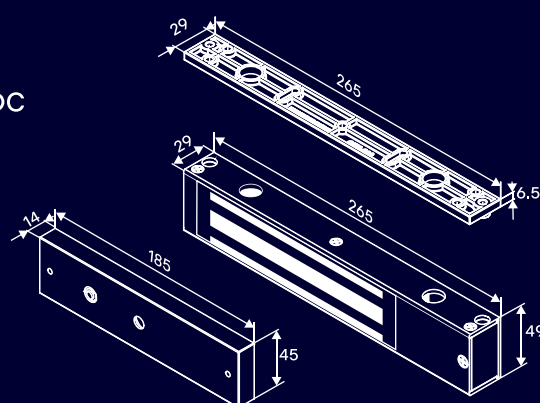
### Patents, Approvals, and Listings

UL10B/C & ULC S104 Listed: 3/4 Hour



## Specifications

<b>Operating Voltage</b>	12/24 VDC (Auto Select)
<b>Current Draw</b>	500 mA/12 VDC, 270 mA/24 VDC
<b>Operating Temperature</b>	0°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Holding Force</b>	Up to 800 lbs
<b>Net Weight</b>	2.9 Kg
<b>Locking Mode</b>	Fail-Safe
<b>Body Construction</b>	Anodized Aluminium
<b>Dimensions</b>	265 L x 29 W x 49 D (mm)



# Models

Model	Feature
<b>GEM-800</b>	Standard Model, Unmonitored
<b>GEM-800M</b>	Bond Sensor
<b>GEM-800M-LF</b>	<i>(With LF Option LED)</i>
<b>GEM-800MBZ</b>	Bond Sensor and Alarm with Door Held Open Alarm
<b>GEM-800MDS</b>	Bond Sensor and Door Status Sensor
<b>GEM-800MDS-BZ</b>	Bond Sensor, Door Status Sensor, Door Held Open Alarm
<b>GEM-800MDS-TD</b>	Bond Sensor, Door Status Sensor and Relock Time Delay
<b>GEM-800MDS-TD-LD</b>	<i>(With LD Option LED)</i>
<b>GEM-800MDS-TD-LF</b>	<i>(With LF Option LED)</i>
<b>GEM-800MTD</b>	Bond Sensor and Relock Time Delay
<b>GEM-800MTD-LD</b>	<i>(With LD Option LED)</i>
<b>GEM-800MTD-LF</b>	<i>(With LF Option LED)</i>

Bond Sensor (M): Indicates door locked and unlocked. SPDT rated: 0.5A/125VAC, 1A/24VDC

Bi-Colour Status LED Indicator: Included on bond sensor option, the visual LED indicates that door is locked or unlocked.

Green: Unlocked; Red: Locked

Door Held Open Alarm (BZ): Alarm for prolonged opening of the door. Time is adjustable from 1 to 80 seconds.

Relock Time Delay (TD) : Field adjustable relock time delay of 1~80 seconds. Instant release with adjustable relock time.

Door Status Sensor (DS): Indicates door open and closed. Rated: 0.2A/12VDC

## LED Indicator Options

### M Option (Standard)

Square LED at the bottom side of the maglock.

LED Dimension: 15(W) x 15(H) mm



### LF Option:

Large oval LED at the bottom side of the maglock.

LED Dimension: 32(W) x 12 (H) mm



### LD Option

Large oval LED which is visible on the back side. Reset input is also included for independent lock control.

Recommended for use on outswing doors.

LED Dimension: 37.5 (W) x 15 (H) mm



The PH-450 is an electromagnetic lock that features a stylish door handle design. The armature plate is enclosed in an aluminium casing which serves as a door handle.

The 600lb magnetic lock is surface mounted in a vertical direction on the door frame. When the door is closed, only the door handle is seen. It is most suitable for metal doors and door frames and can be posi-



### Standard Features

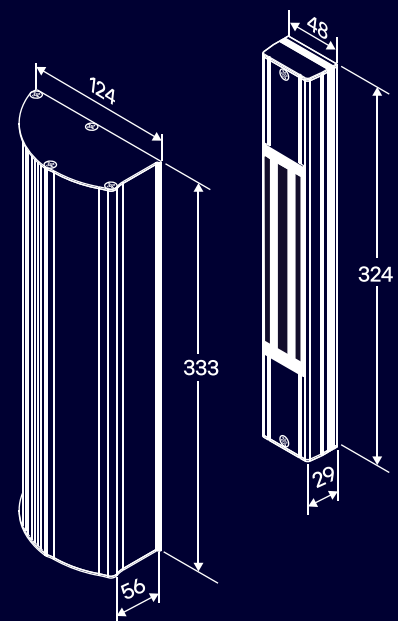
- Stylish Handle Design
- Anodized Aluminium Casing (US28)
- Dual Voltage (Field Selectable)
- No Residual Magnetism – Instant Release
- For Inswing Doors
- Optional Bond Sensor/Door Status/Time Delay

## Specifications

<b>Operating Voltage</b>	12/24 VDC
<b>Current Draw</b>	500 mA/12 VDC; 250 mA/24 VDC
<b>Operating Temperature</b>	-10~55°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Holding Force</b>	600 lbs
<b>Bond Sensor (M) Output*</b>	3 A/12 VDC
<b>Door Status (DS) Output*</b>	0.2 A/12 VDC
<b>Time Delay* (TD)</b>	0-30 Seconds
<b>Net Weight</b>	3.6 Kg
<b>Locking Mode</b>	Fail-Safe
<b>Body Construction</b>	Anodized Aluminium (with Zinc Plating Finish)
<b>Dimensions</b>	324 L x 48 W x 29 D (mm)

\*Optional with selected models

Dimensions



# Models

Model	Holding Force (lbs)	Feature
PH-450	600	Standard Model, Unmonitored
PH-450M	600	Bond Sensor
PH-450MTD	600	Bond Sensor and Relock Time Delay
PH-450MDS-TD	600	Bond Sensor, Door Status Sensor and Relock Time Delay

With Bond Sensor: Indicates door is locked and unlocked. SPDT rated: 1A/24VDC  
Relock Time Delay: Field adjustable relock time delay of 1~80 seconds. Instant release with adjustable relock time.  
Door Status Sensor: Indicates door is open and closed. Rated: 0.2A/12VDC

# Other Models

Model	Holding Force (lbs)	Feature
PH-500MTD	600	Exit Button & Bi-Colour LED, Bond Sensor and Relock Time Delay
PH-900	600 x2	Double 600lbs, Standard Model, Unmonitored
PH-900M	600 x 2	Double 600lbs, Bond Sensor
PH-900MTD	600 x 2	Double 600lbs, Bond Sensor and Relock Time Delay
PH-900MDS-TD	600 x 2	Double 600lbs, Bond Sensor, Door Status Sensor and Relock Time Delay



PH-500MTD

PH-900



GD850F is a European standard, floor mount electromagnetic door holder. It is designed for use with self-closing fire and smoke barrier doors, either independently or with any fire or smoke detector system. It features an emergency release button with an LED ring indicator for identifying in the dark. There are two types of armature plate to choose from.

### Standard Features

- Instant Manual Release Button
- LED Ring Indicator
- No Residual Magnetism Design
- 2 Types of Armature Plate
  - Swivel
  - Self-Adjustable

### Patents, Approvals, and Listings

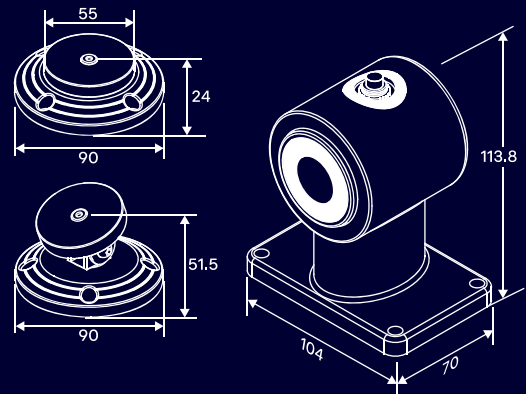
Tested and Classified 3-5-3-1-1-3 for EN 1155:1997+A1:  
2002/ AC: 2006



## Specifications

<b>Operating Voltage</b>	24 VDC*
<b>Current Draw</b>	90mA/24VDC
<b>Holding Force</b>	80 lbs
<b>Net Weight</b>	1.1 Kg
<b>Finish</b>	Powder Coated
<b>Mount</b>	Floor Mount
<b>Lock Mode</b>	Fail-Safe
<b>Dimensions</b>	113.8 L x 104 W x 70 D (mm)

\*12 VDC Available by Special Order





# Models

Model	Holding Force (lbs)	Manual Release	Bond Sensor	Mount	Finish	LED	Armature Plate
GD850F	80	Yes	None	Floor	Black & Silver	Yes	Swivel or Self-Adjustable

# Other Models

Model	Holding Force (lbs)	Manual Release	Bond Sensor	Mount	Finish	LED	Armature Plate
GD640S	70	Yes	None	Flush Surface	Stainless Steel	Yes	Swivel
GD840S	80	Yes	None	Surface	Black	Yes	Swivel or Self-Adjustable
GD860S	80	Yes	None	Surface	White	Yes	Swivel or Self-Adjustable
RM90	550	None	Optional	Surface	White	None	Fixed



GD640S



GD840S



GD860S



RM90

The GML880 is a heavy-duty electric lock, ideal for handle-controlled unlocking. When door closes, deadlatch ensures the latch bolt is locked in place. It features field reversible latch bolt to suit both handing doors. The lever rotation (inside/outside) can be configured independently to engage or not engage the latch bolt. Optional monitoring ensures enhanced security in a sophisticated access control system.

### Standard Features

- Field Changeable Fail-Safe or Fail-Secure
- Field Reversible Latch Bolt
- Inside/Outside Lever Rotation Configurable
- Cylinder & Keys Included
- Optional Monitoring options:
  - Lock & Lever Status (M, MDS Models)
  - Door status (MDS Models)

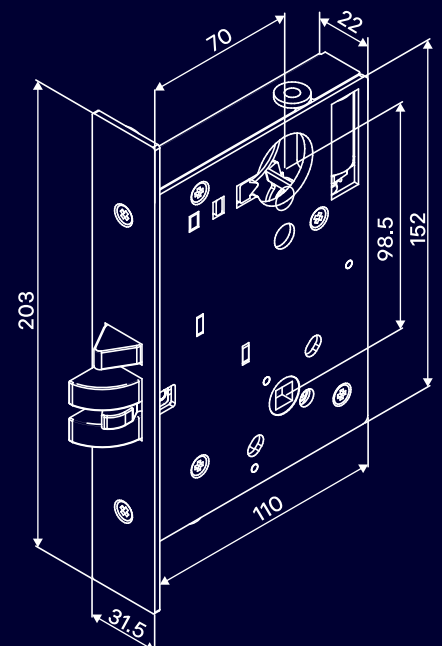
### Patents, Approvals, and Listings

- Tested to 260 Minutes (No Failure) In Accordance
- With EN1634-1:2014+A1:2018



## Specifications

<b>Operating Voltage</b>	12/24 VDC
<b>Current Draw</b>	600 mA/12 VDC; 300 mA/24 VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Monitoring Rating</b>	Door Status: 1A/40VDC Lever Status: 1A/40VDC Lock Status: 1A/40VDC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Net Weight</b>	1550g
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Dimensions</b>	203 L x 31.5 W x 110 D (mm)
<b>Body Construction</b>	Brushed Stainless Steel
<b>Backset</b>	2 3/4" (70mm)



# Models

Model	Lock & Lever Monitor (M)	Door Status Monitor (DS)	Lever Options
GML880-1224	N/A	N/A	N/A
GML880-1224-SET	N/A	N/A	L811, L812, L814
GML880M-1224	Yes	N/A	N/A
GML880M-1224-SET	Yes	N/A	L811, L812, L814
GML880MDS-1224	Yes	Yes	N/A
GML880MDS-1224-SET	Yes	Yes	L811, L812, L814

## Optional Accessories

**GML880-SET**  
with L811 Lever Option



**GML880-SET**  
with L812 Lever Option



**GML880-SET**  
with L814 Lever Option



The **GK231M** is a mortise electric strike that works with cylindrical locksets or European latches. It is made of stainless-steel construction and is designed a high preload release capability of up to 500 lbs. The locks are handed and features lock and door status monitoring.

### Standard Features

Stainless Steel Body & Faceplate Construction  
Handed (Left and Right)  
Lock Status & Door Status  
Optional Faceplates (Round & Square).

### Patents, Approvals, and Listings

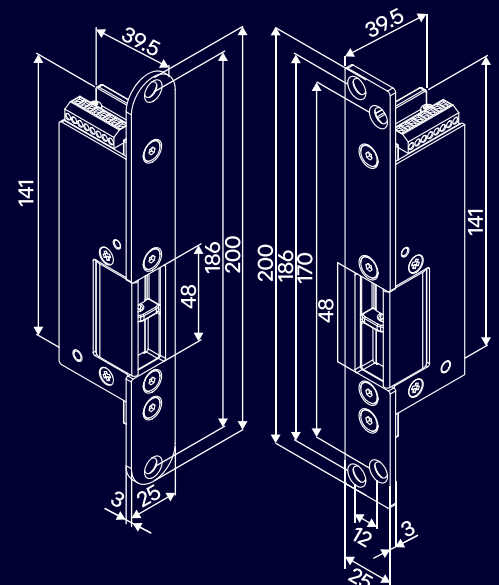
CE: EC451107 (1224 Models)  
CE: EC451108 (2448 Models)



### Dimensions

## Specifications

<b>Operating Voltage</b>	12/24 VDC or 24/48 VDC
<b>Current Draw</b>	300 mA/12 VDC; 150 mA/24 VDC or 150 mA/24 VDC ;75 mA/48 VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Preload</b>	Up to 500 lbs
<b>Holding Force</b>	1,500 lbs
<b>Lock &amp; Door Status Rating</b>	1 A/125 VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Locking Mode</b>	Fail- Safe
<b>Latch Throw</b>	15 mm
<b>Keeper Width</b>	48 mm
<b>Body Construction</b>	Stainless Steel
<b>Net Weight</b>	673 g
<b>Dimensions</b>	200 L x 25 W x 39.5 D (mm)



# Models

Model	Static Strength (lbs)	Preload (lbs)	Monitoring	Latch Throw (mm)	Adjustable Keeper
GK231	1,500	500	None	15	No
GK231M	1,500	500	Lock & Door Stats	15	No

# Other Models

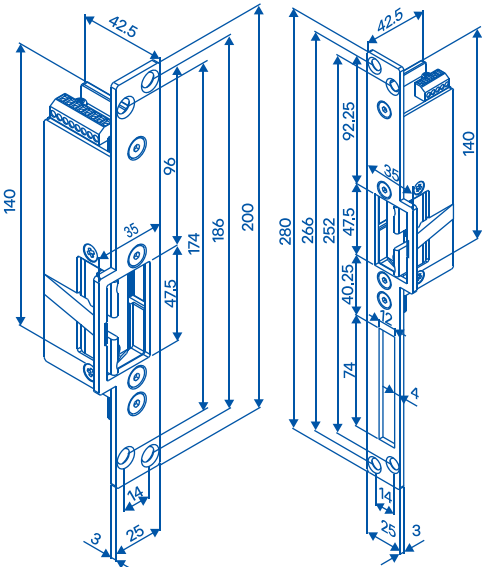
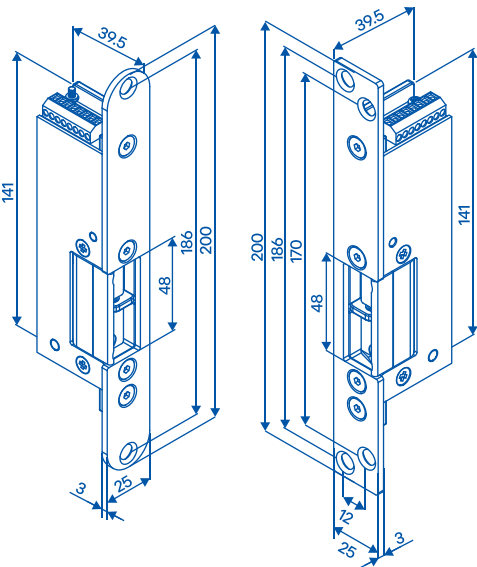
Model	Static Strength (lbs)	Preload (lbs)	Monitoring	Latch Throw (mm)	Adjustable Keeper
GK233	700	500	None	11	Yes
GK233M	700	500	Lock & Door Stats	11	Yes
GK236	700	500	None	11	Yes
GK236M	700	500	Lock Stats	11	Yes



GK233,GK233M



GK236,GK236M



The GK460-ST Series ANSI electric strikes are made of stainless steel for enhanced durability and fire-resistance. The strike features a special ramp design which allows the latch bolt to enter or exit the strike cavity without frame cutting. It is designed for use with cylindrical locksets and can be installed on metal and wood door frames.

### Standard Features

- No Frame Cutting Required
- Non-Handed Fully Reversible
- Brushed Stainless Steel Finish (US32D)

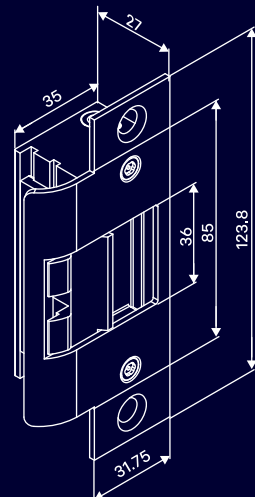
### Patents, Approvals, and Listings

- UL 1034 & UL294 Listed: BP10269
- ETL UL10C Fire-Rated (3 Hour: Fail-Secure Only)



## Specifications

Operating Voltage	12/24 VDC
Current Draw	300 mA/12 VDC, 150 mA/24 VDC
Operating Temperature	-10~49°C
Humidity	0~85% Non-Condensing
Static Strength	1,500 lbs
Dynamic Strength	70 ft-lbs
Solenoid Endurance	250,000 Cycles (UL Tested) Level IV 1,000,000 Cycles (Factory Tested)
Destruction Attack	Level I
Line security	Level I
Standby power	Level I
Locking Mode	Fail-Safe/ Fail-Secure
Latch Throw	19 mm
Keeper Width	17/16" (36 mm)
Dimensions	123.8 L x 31.75 W x 27 D (mm)

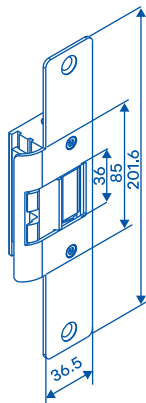


# Models

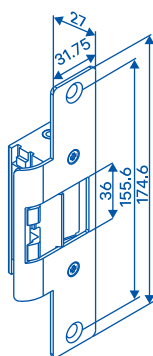
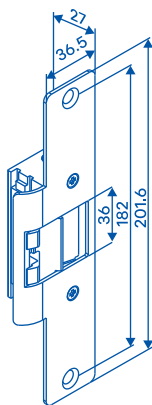
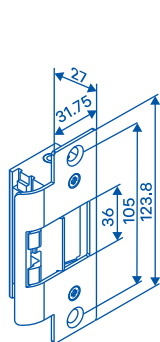
Model	Monitoring	Body Construction	Dimensions (mm)
GK460-ST	None	Stainless Steel	123.8 L x 31.75 W x 27 D
GK460M-ST	Latch Status	Stainless Steel	123.8 L x 31.75 W x 27 D
GK461-ST	None	Stainless Steel	201.6 L x 36.5 W x 27 D
GK461M-ST	Latch Status	Stainless Steel	201.6 L x 36.5 W x 27 D
GK465-ST	None	Stainless Steel	123.8 L x 31.75 W x 27 D
GK465M-ST	Latch Status	Stainless Steel	123.8 L x 31.75 W x 27 D

## Other Models Dimensions

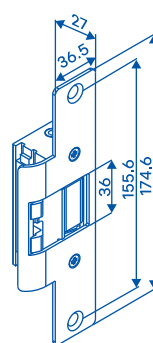
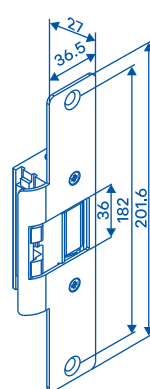
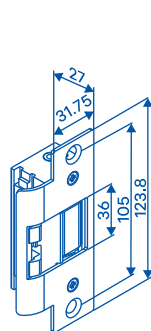
GK461-ST



GK465-ST



GK465M-ST





The GK1276 ANSI Electric Rim Strike is surface-mount and designed with strength and durability in mind. Compatible with rim-type exit devices with a Pullman latch bolt (  $\frac{3}{4}$ " throw), the strike features stain-less steel housing, fail-safe/fail-secure selectable, horizontal adjustment and an optional latch monitor.

### Standard Features

Non-Handed Fully Reversible  
Horizontal Adjustment  
Brushed Stainless Steel Finish (US32D)  
Latch Monitor: GK1276M  
For Indoor Use Only

### Patents, Approvals, and Listings

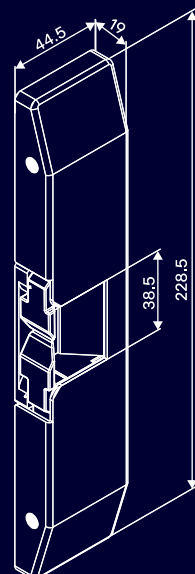
UL 1034 & UL294 Listed: BP10269  
UL 10B/10C Fire-Rated: R39009 (1.5 Hour: Fail-Secure Only)  
CAN/ULC-S104 Listed: R39009  
Australia Patent: 2019100081



## Dimensions

## Specifications

<b>Operating Voltage</b>	12/24 VDC
<b>Current Draw</b>	540 mA/12 VDC; 270 mA/24 VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Static Strength</b>	1,500 lbs
<b>Dynamic Strength</b>	70 ft-lbs
<b>Solenoid Endurance</b>	250,000 Cycles (UL Tested) Level IV 1,000,000 Cycles (Factory Tested)
<b>Destruction Attack</b>	Level I
<b>Line security</b>	Level I
<b>Standby power</b>	Level I
<b>Net Weight</b>	1 Kg
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Latch Throw</b>	$\frac{3}{4}$ "
<b>Dimensions</b>	228.5 L x 44.5 W x 19 D (mm)

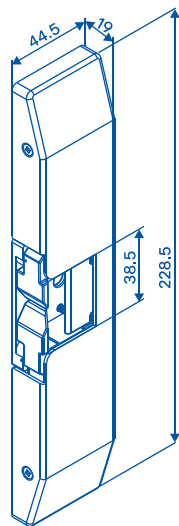


# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
GK1276	None	Surface	228.5 L x 44.5 W x 19 D
GK1276M	Latch status	Surface	228.5 L x 44.5 W x 19 D

## Other Models Dimensions

GK1276M  
(Model with Latch Monitor)



## Optional Accessories

Bracket Model **SMB-GK1276**  
( For Surface Mount )



The GK1296 ANSI Electric Rim Strike is surface-mount and designed with strength and durability in mind. Compatible with rim-type exit devices with a Pullman latch bolt (  $\frac{1}{2}$ " throw), the strike features stainless steel housing, fail-safe/fail-secure selectable, horizontal adjustment and an optional latch monitor.

### Standard Features

- Non-Handed Fully Reversible
- Horizontal Adjustment
- Brushed Stainless Steel Finish (US32D)
- Latch Monitor: GK1296M
- For Indoor Use Only

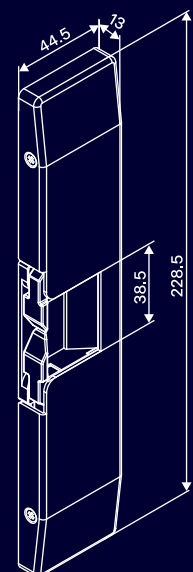
### Patents, Approvals, and Listings

- UL 1034 & UL294 Listed: BP10269
- Australia Patent: 2019100081



## Specifications

<b>Operating Voltage</b>	12/24VDC
<b>Current Draw</b>	540mA/12VDC; 270mA/24VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Static Strength</b>	1,500 lbs
<b>Dynamic Strength</b>	70 ft-lbs
<b>Solenoid Endurance</b>	250,000 Cycles (UL Tested) Level IV 1,000,000 Cycles (Factory Tested)
<b>Destruction Attack</b>	Level I
<b>Line security</b>	Level I
<b>Standby power</b>	Level I
<b>Net Weight</b>	1 Kg
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Latch Throw</b>	1/2"
<b>Dimensions</b>	228.5 L x 44.5 W x 13 D (mm)

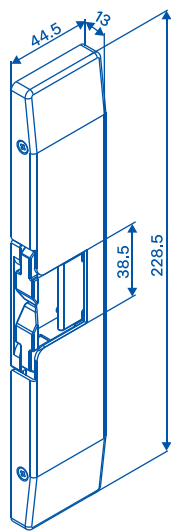


# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
GK1296	None	Surface	228.5 L x 44.5 W x 13 D
GK1296M	Latch status	Surface	228.5 L x 44.5 W x 13 D

## Other Models Dimensions

**GK1296M**  
(Model with Latch Monitor)



## Optional Accessories

Bracket Model **SMB-GK1276**  
( For Surface Mount )



The **GK1350** Series ANSI electric strike is designed for use with heavy duty mortise and cylindrical locksets. It features vertical adjustments, making it compatible with a wide range of mortise locks with offset latches. The sliding keeper shim design also allows it to fit with misaligned frames up to 3mm. The strike comes with 5 faceplates making it a versatile strike to accommodate for a range of locks designed to work within an ANSI 4 7/8" strike plate.

### Standard Features

- Vertical Adjustments Possible
- Sliding Keeper Shim Design
- Accommodates Deadbolts Up to 1"
- Non-Handed Fully Reversible
- 5 Stainless Steel Faceplates Included
- Latch Monitor: GK1350M, GK1350M-ST
- Zinc Alloy Construction: GK1350, GK1350M
- Stainless Steel Construction: GK1350-ST, GK1350M-ST

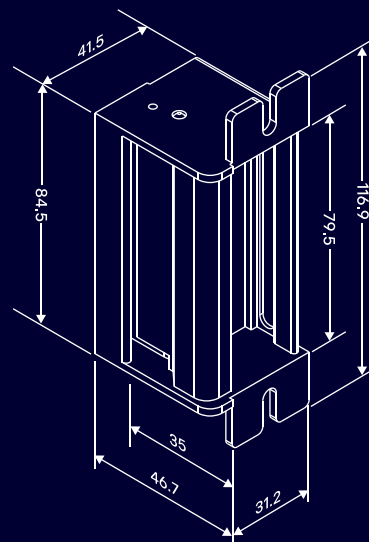
### Patents, Approvals, and Listings

UL 1034 & UL294 Listed: BP10269



## Specifications

<b>Operating Voltage</b>	12/24 VDC
<b>Current Draw</b>	300 mA/12 VDC, 150 mA/24 VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Static Strength</b>	1,500 lbs
<b>Dynamic Strength</b>	70 ft-lbs
<b>Solenoid Endurance</b>	250,000 Cycles (UL Tested) Level IV 1,000,000 Cycles (Factory Tested)
<b>Destruction Attack</b>	Level I
<b>Line security</b>	Level I
<b>Standby power</b>	Level I
<b>Net Weight</b>	1.2 Kg
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Latch Throw</b>	1" (25mm) Max with 1/8" (3mm) Door Gap
<b>Dimensions</b>	116.9 L x 31.2 W x 46.7 D (mm)

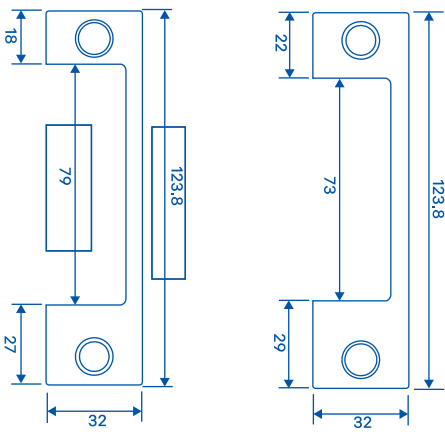


# Models

Model	Monitoring	Body Construction	Dimensions (mm)
GK1350-1224	None	Zinc Alloy	116.9 L x 31.2 W x 46.7 D
GK1350M-1224	Latch Status	Zinc Alloy	116.9 L x 31.2 W x 46.7 D
GK1350-ST-1224	None	Stainless Steel	116.9 L x 31.2 W x 46.7 D
GK1350M-ST-1224	Latch Status	Stainless Steel	116.9 L x 31.2 W x 46.7 D

## Faceplates Dimensions

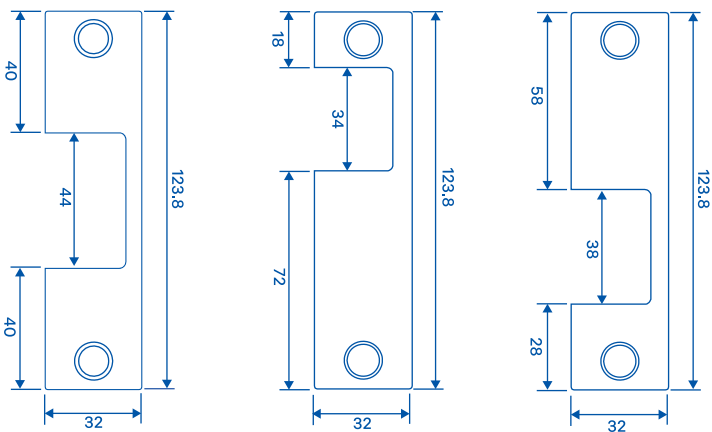
Deadbolt Latch Installation



E

F

Latchbolt Installation



G

H

I

The GK1800 Series are compact size mortise locks that can be electrically controlled by access control system. They are designed for installation on wood or hollow metal doors and are compatible with cylindrical locksets. Featuring a compact body and low-profile 1/2" depth, the GK1800 series is available with different styles of faceplates for a wide range of applications.

### Standard Features

- Compact Design, Suitable for Limited Jamb Space
- 11 Faceplate Options on Unified Strike Body
- Field Selectable Fail-secure / Fail-safe
- Non-Handed Fully Reversible (Except for GK1885)

### Patents, Approvals, and Listings

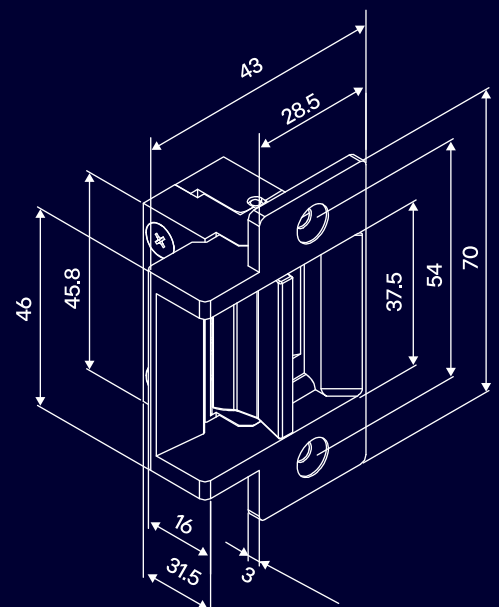
ETL UL1034 & UL294 Under Testing



### Dimensions

## Specifications

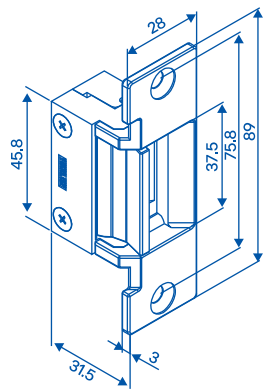
<b>Operating Voltage</b>	12 VDC, 24 VDC , 12/24 VDC
<b>Current Draw</b>	Single Voltage: 170mA/12VDC, 85mA/24VDC Dual Voltage: 180mA/12VDC, 90mA/24VDC
<b>Operating Temperature</b>	0~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Static Strength</b>	700 lbs
<b>Dynamic Strength</b>	33 ft-lbs
<b>Solenoid Endurance</b>	Over 1,000,000 Cycles
<b>Lock Bolt Output Rating</b>	1A/125VAC (GK1830M Only)
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Body Construction</b>	Zinc Alloy
<b>Strike Depth</b>	1/2" (13mm)
<b>Latch Throw</b>	Up to 5/8"(16mm) Latch with 1/8"(3mm) Door Gap



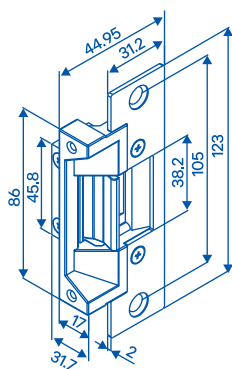


Other Models Dimensions

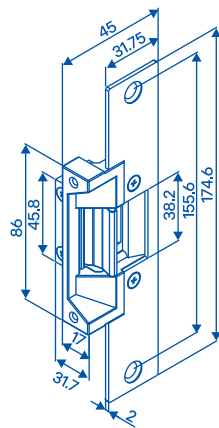
GK1820



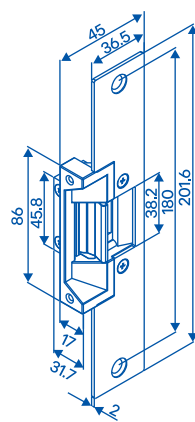
GK1830(A)  
GK1830M(A)



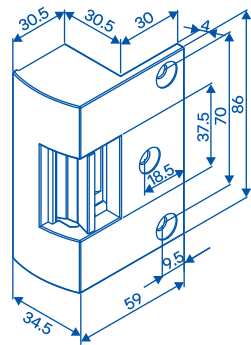
GK1830(B)  
GK1830M(B)



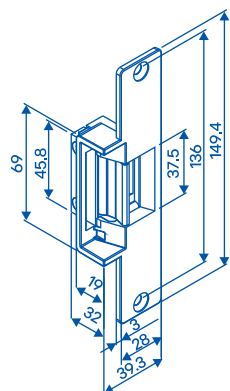
GK1830(C)  
GK1830M(C)



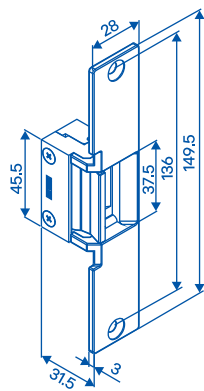
GK1840



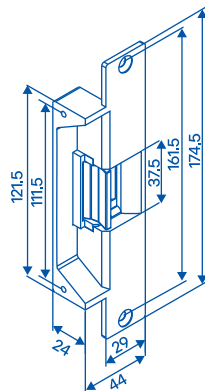
GK1850



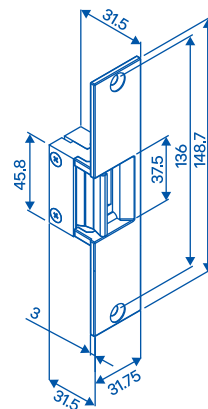
GK1860



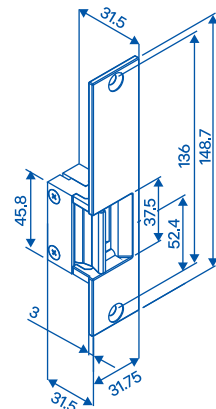
GK1870



GK1880



GK1885



The GK1900 Series electric strike is designed for use with hook bolt locks with a thumb turn or key cylinder. It is suitable for sliding doors and offers 100 lbs of preload release capability, ensuring smooth operation even under door preload conditions.

### Standard Features

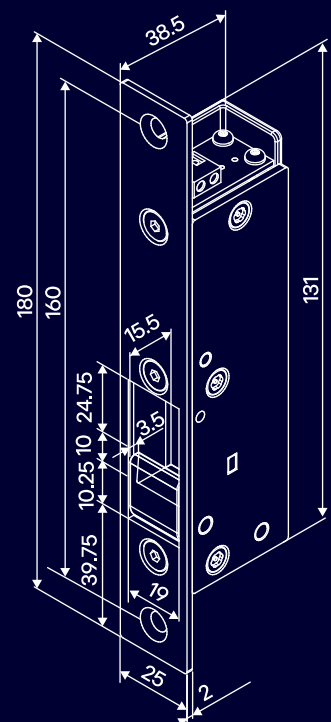
- Non-Handed
- Easy-to-Connect Terminal Blocks
- Optional Latch Monitoring (GK1900M)



## Specifications

<b>Operating Voltage</b>	12/24 VDC
<b>Current Draw</b>	700 mA/12 VDC, 350 mA/24 VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Preload</b>	Up to 100 lbs
<b>Static Strength</b>	700 lbs
<b>Latch Monitoring Rating</b>	0.3A/6VDC (GK1900M Only)
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Net Weight</b>	600g
<b>Locking Mode</b>	Fail-Secure
<b>Dimensions</b>	124 L x 43.5 W x 27 D (mm)
<b>Keeper Width</b>	3/4" (19 mm)
<b>Cavity Depth</b>	5/8" (16 mm)
<b>Body Construction</b>	Zinc Alloy

### Dimensions

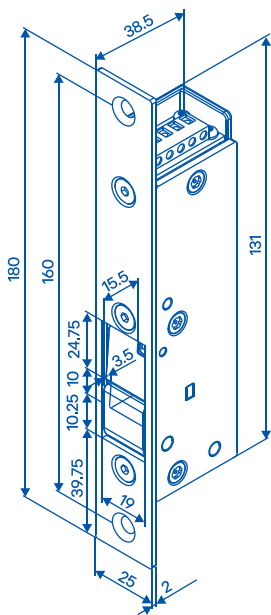


# Models

Model	Feature
GK1900	Standard Model, Unmonitored
GK1900M	With Latch Monitor

## Other Models Dimensions

GK1900M



## Optional Accessories

Compatible Locks  
**HK1900**



The ML-400M is a mortise lock that can be electrically controlled by access control system. It is made of stainless steel and features double action latch, door status monitoring and preload of up to 500 lbs. The lock is always automatically deadlocked when the door is closed and is suitable for single and double swing doors.

### Standard Features

- Brushed Stainless Steel Construction
- Double Action Latch
- Self-Adjusting Deadlatch
- Door Status Monitoring
- For Mortise, Surface, or Glass Mount
- 6 Strike Plate Options
- Horizontal/Vertical Installation

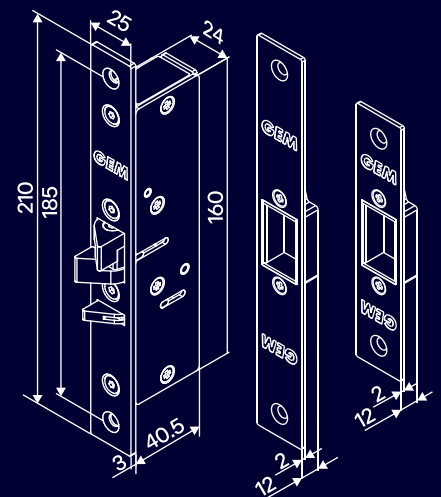
### Patents, Approvals, and Listings

- Taiwan Patent: M623993
- China Patent: ZL 2021 2 2473559.4
- Performance Tested to EN14846: 3Y50G101



## Specifications

<b>Operating Voltage</b>	12~24VDC/AC
<b>Current Draw</b>	280mA/12VDC; 180mA/24VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Preload</b>	Up to 500 lbs
<b>Static Strength</b>	1,500 lbs
<b>Lock Bolt Sensor Output</b>	1A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Net Weight</b>	815g
<b>Locking Mode</b>	Fail-Safe
<b>Latch Throw</b>	15mm

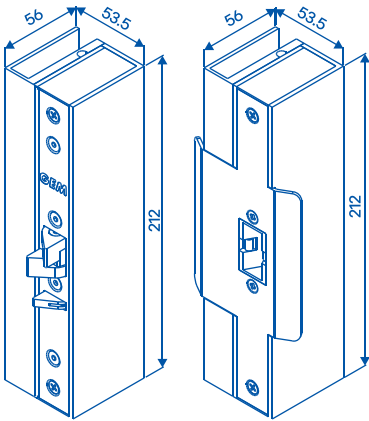


# Models

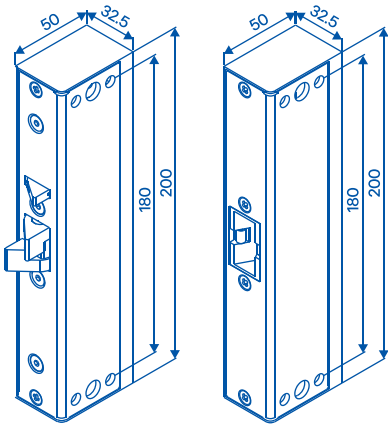
Model	Monitoring	Mounting Style	Dimensions (mm)
ML-400M	Lock Status	Mortise	210 L x 25 W x 40.5 D
ML-400MSMB	Lock Status	Surface	200 L x 32.5 W x 50 D
ML-400MVGL	Lock Status	Glass	212 L x 53.5 W x 56 D

## Other Models Dimensions

ML-400MVGL  
(For Glass Mount)



ML-400MSMB  
(For Surface Mount)



## Optional Accessories

Strike Plate  
 KP-ML-400-A    KP-ML-400-B    KP-ML-400-C    KP-ML-400-D    KP-ML-400-E    KP-ML-400-F



The ML-450M is a **mortise lock** that can be electrically controlled by access control system. It is made of stainless steel and features robust latch, door status monitoring and preload of up to 500 lbs. The lock is always automatically deadlocked when the door is closed and is suitable for single and double swing doors.

### Standard Features

- Brushed Stainless Steel Construction
- Self-Adjusting Deadlatch
- Door Status Monitoring
- For Mortise, Surface, or Glass Mount
- 6 Strike Plate Options
- Horizontal/Vertical Installation

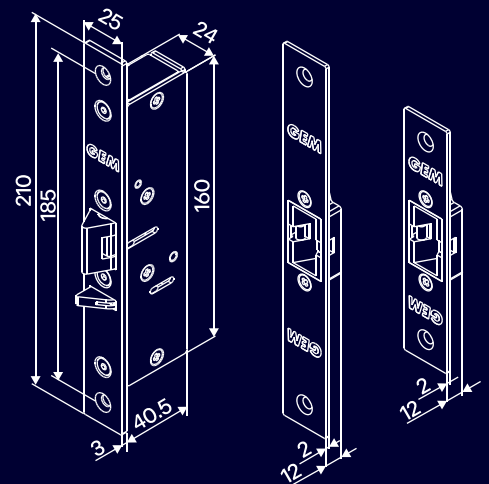
### Patents, Approvals, and Listings

- Taiwan Patent: M623993
- China Patent: ZL 2021 2 2473559.4
- Performance Tested to EN14846: 3Y50G101



## Specifications

<b>Operating Voltage</b>	12~24VDC/AC
<b>Current Draw</b>	280mA/12VDC; 180mA/24VDC
<b>Operating Temperature</b>	-10~49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Preload</b>	Up to 500 lbs
<b>Static Strength</b>	1,500 lbs
<b>Lock Bolt Sensor Output</b>	1A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Net Weight</b>	815g
<b>Locking Mode</b>	Fail-Safe
<b>Latch Throw</b>	13mm

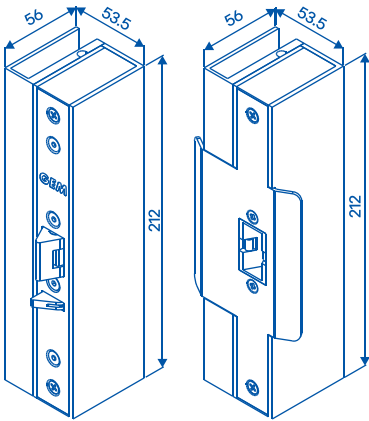


# Models

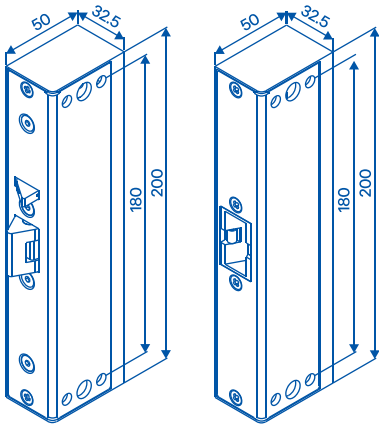
Model	Monitoring	Mounting Style	Dimensions (mm)
ML-450M	Lock Status	Mortise	210 L x 25 W x 40.5 D
ML-450MSMB	Lock Status	Surface	200 L x 32.5 W x 50 D
ML-450MVGL	Lock Status	Glass	212 L x 53.5 W x 56 D

## Other Models Dimensions

ML-450MVGL  
(For Glass Mount)



ML-450MSMB  
(For Surface Mount)



## Optional Accessories

Strike Plate

KP-ML-450-A    KP-ML-450-B    KP-ML-450-C    KP-ML-450-D    KP-ML-450-E    KP-ML-450-F





The ML-600M-30 is a Euro profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features double action latch, relock time delay, door position sensor and preload of up to 100 lbs. Mechanical override with cylinder is possible and the lock is always automatically dead-locked when the door is closed.

### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Double Action Latch
- Self-Adjusting Deadlatch
- Door Position Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only

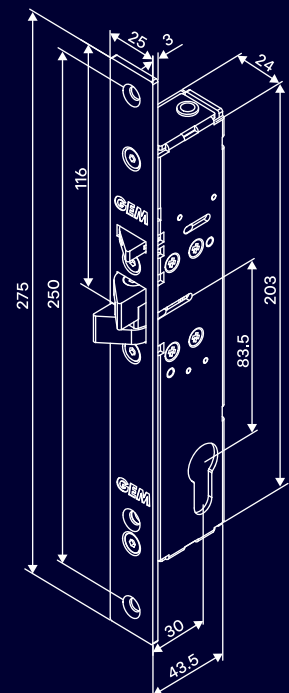
### Patents, Approvals, and Listings

- Taiwan Patent: M606072
- China Patent: ZL 2020 2 1879620.4



## Specifications

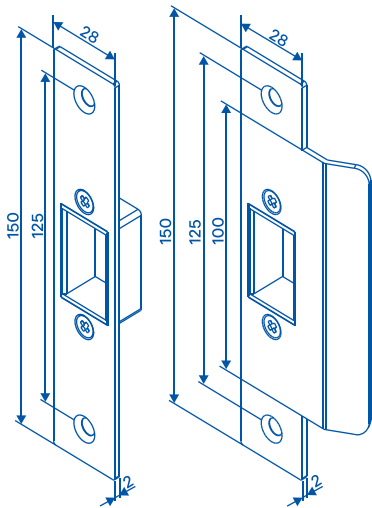
<b>Operating Voltage</b>	12~24VDC $\pm 10\%$
<b>Current Draw</b>	600mA /12VDC, 300mA/24VDC
<b>Operating Temperature</b>	-10°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Preload</b>	Up To 100 lbs
<b>Door Status Output</b>	1A/125VAC
<b>Relock Time Delay</b>	3 Seconds
<b>Solenoid Endurance</b>	Over 250,000 cycles
<b>Locking Mode</b>	Fail-Secure
<b>Dimensions</b>	275 L x 25 W x 43.5 D (mm)
<b>Backset</b>	30mm
<b>Latch Throw</b>	15mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-600M-30	Lock Status	Mortise	275 L x 25 W x 43.5 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-72D**  
Euro-profile double cylinder



**ECY-72S**  
Euro-profile thumbturn cylinder



The ML-650M-30 is a Euro profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features robust latch, relock time delay, door position sensor and preload of up to 100 lbs. Mechanical override with cylinder is possible and the lock is always automatically deadlocked when the door is closed.

### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Self-Adjusting Deadlatch
- Door Position Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only

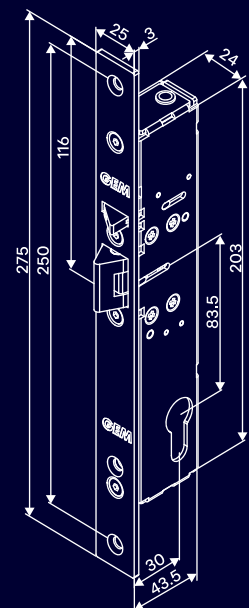
### Patents, Approvals, and Listings

- Taiwan Patent: M606072
- China Patent: ZL 2020 2 1879620.4



## Specifications

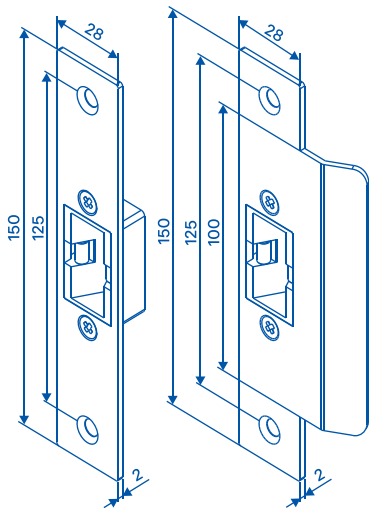
Operating Voltage	12~24VDC $\pm 10\%$
Current Draw	600mA /12VDC, 300mA /24VDC
Operating Temperature	-10°C~+49°C
Humidity	0~85% Non-Condensing
Preload	Up To 100 lbs
Door Status Output	1A/125VAC
Relock Time Delay	3 Seconds
Solenoid Endurance	Over 250,000 Cycles
Locking Mode	Fail-Secure
Dimensions	275 L x 25 W x 43.5 D (mm)
Backset	30mm
Latch Throw	13mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-650M-30	Lock Status	Mortise	275 L x 25 W x 43.5 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-72D**  
Euro-profile double cylinder



**ECY-72S**  
Euro-profile thumbturn cylinder



The ML-605M-35 is a Euro profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features double action latch, lock status, and is fail-safe/fail-secure changeable. Mechanical override with cylinder is possible and the lock is always automatically deadlocked when the door is closed.

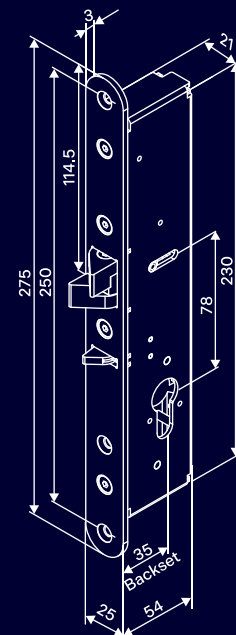
### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Double Action Latch
- Self-Adjusting Deadlatch
- Lock Bolt Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only
- Fail-Safe/ Fail-Secure Reversible



## Specifications

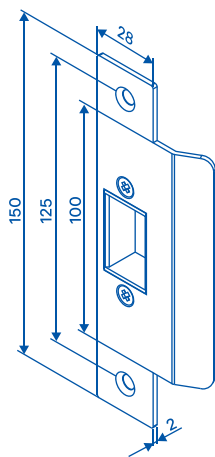
<b>Operating Voltage</b>	12~24VDC/AC $\pm 10\%$
<b>Current Draw</b>	250mA/12VDC; 150mA/24VDC
<b>Operating Temperature</b>	-10°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Lock Bolt Sensor Output</b>	SPDT Rated 3A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Dimensions</b>	275 L x 25 W x 54 D (mm)
<b>Backset</b>	35mm
<b>Latch Throw</b>	15mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-605M-35	Lock Status	Mortise	275 L x 25 W x 54 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-72D**  
Euro-profile double cylinder



**ECY-72S**  
Euro-profile thumbturn cylinder



The ML-655M-35 is a Euro profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features robust latch, lock status, and fail-safe/fail-secure changeable. Mechanical override with cylinder is possible and the lock is always automatically deadlocked when the door is closed.

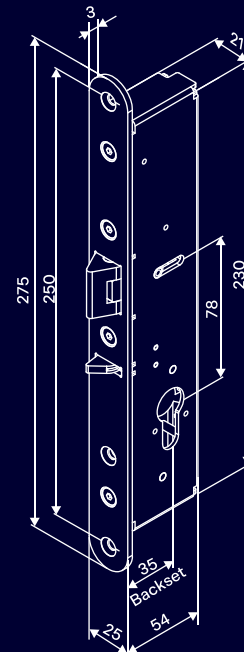
### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Self-Adjusting Deadlatch
- Lock Bolt Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only
- Fail-Safe/ Fail-Secure Reversible



## Specifications

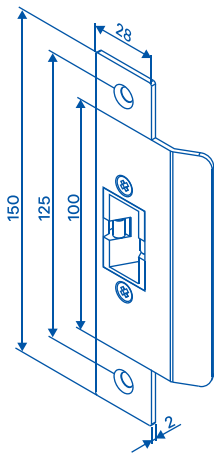
<b>Operating Voltage</b>	12~24VDC/AC $\pm 10\%$
<b>Current Draw</b>	250mA/12VDC; 150mA/24VDC
<b>Operating Temperature</b>	-10°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Lock bolt sensor switch output</b>	SPDT Rated 3A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Dimensions</b>	275 L x 25 W x 54 D (mm)
<b>Backset</b>	35mm
<b>Latch Throw</b>	13mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-655M-35	Lock Status	Mortise	275 L x 25W x 54 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-72D**  
Euro-profile double cylinder



**ECY-72S**  
Euro-profile thumbturn cylinder





The ML-905M-35 is a Scandinavian profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features double action latch and lock status. Mechanical override with cylinder is possible and the lock is always automatically dead-locked when the door is closed.

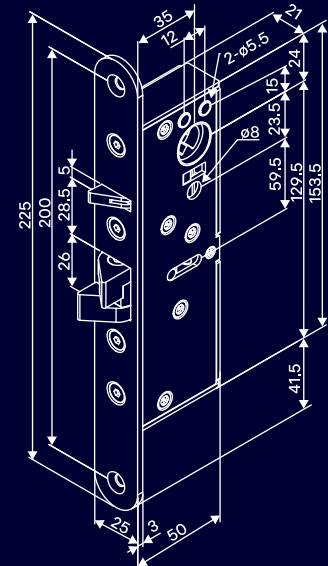
### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Double Action Latch
- Self-Adjusting Deadlatch
- Lock Bolt Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only



## Specifications

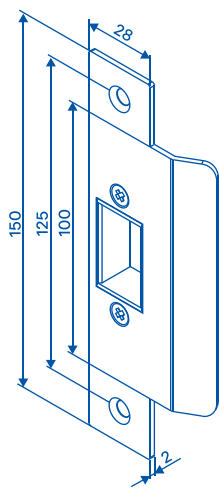
<b>Operating Voltage</b>	12~24VDC/AC $\pm 10\%$
<b>Current Draw</b>	250mA/12VDC; 150mA/24VDC
<b>Operating Temperature</b>	-10°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Lock Status Output</b>	1A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Locking Mode</b>	Fail-Secure
<b>Dimensions</b>	225 L x 25 W x 50 D (mm)
<b>Backset</b>	35mm
<b>Latch Throw</b>	15mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-905M-35	Lock Status	Mortise	225 L x 25 W x 50 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-45-HDE**  
Scandinavian-profile cylinder



The ML-955M-35 is a Scandinavian profile mortise lock that can be electrically controlled by access control system. The lock is made of stainless steel and features robust latch and lock status. Mechanical override with cylinder is possible and the lock is always automatically deadlocked when the door is closed.

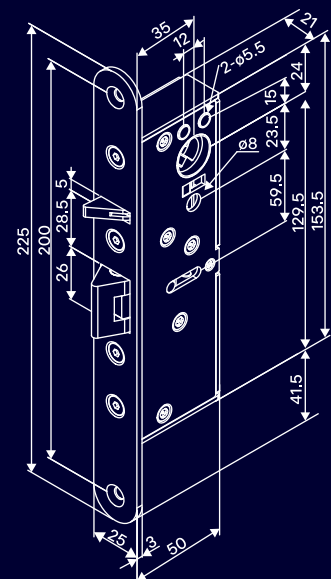
### Standard Features

- For Narrow Frames
- Brushed Stainless Steel Construction
- Non-Handed Fully Reversible
- Self-Adjusting Deadlatch
- Lock Bolt Monitoring
- Mechanical Override (Cylinder Not Included)
- Vertical Installation Only



## Specifications

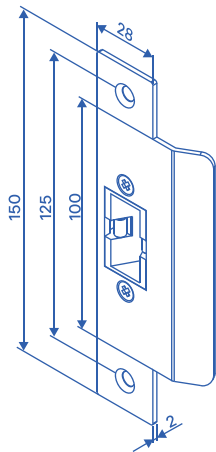
<b>Operating Voltage</b>	12~24VDC/AC $\pm 10\%$
<b>Current Draw</b>	250mA/12VDC; 150mA/24VDC
<b>Operating Temperature</b>	-10°C~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Lock Status Output</b>	1A/125VAC
<b>Solenoid Endurance</b>	Over 250,000 Cycles
<b>Locking Mode</b>	Fail-Secure
<b>Dimensions</b>	225 L x 25 W x 50 D (mm)
<b>Backset</b>	35mm
<b>Latch Throw</b>	13mm



# Models

Model	Monitoring	Mounting Style	Dimensions (mm)
ML-955M-35	Lock Status	Mortise	225 L x 25 W x 50 D

## Strike Plate Dimensions



## Optional Cylinder & Key Accessories

**ECY-45-HDE**  
Scandinavian-profile cylinder



The **EB280M** is a motorised electric drop-bolt that can be controlled by access control system. Featuring motorised operation, the lock consumes less power than solenoid-operated locks. Mechanical override is possible when installed with a Euro profile cylinder or a door handle, in case of power failure. The lock is mortise mount and made of stainless steel. It is designed for use on single action door and ideal for applications where a magnetic lock is impractical.

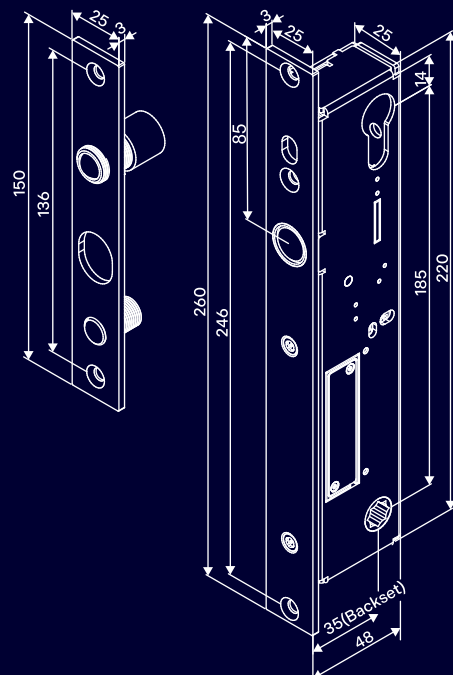
### Standard Features

- Motorised Operation
- Brushed Stainless Steel Construction
- Adjustable Sensor Magnet
- Lock Bolt Monitoring
- Mechanical Override (Cylinder and Door Handle)
- Vertical Installation Only
- Fail-Safe/ Fail-Secure Reversible



## Specifications

<b>Operating Voltage</b>	12~24 VAC/DC (Self-Regulating)
<b>Current Draw</b>	150 mA/12 VDC
<b>Operating Temperature</b>	-10~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Auto Relocking Time</b>	1.5/ 3/ 6/ 9 Seconds
<b>Lock Status Output</b>	1 A/ 125 VAC
<b>Locking Mode</b>	Fail-Safe/ Fail-Secure
<b>Body Construction</b>	Stainless Steel
<b>Dimensions</b>	260 L x 25 W x 48 D (mm)
<b>Lock Strike Plate</b>	150 L x 25 W x 3 D (mm)
<b>Backset</b>	35 mm



# Models

Model	Mechanism	Monitoring	Relock Timer	Reversible Latch Bolt	Deadlatch	Backset (mm)
<b>EB280M</b>	Motor	Lock Bolt Status	No	No	No	35

# Other Models

Model	Mechanism	Monitoring	Relock Timer	Reversible Latch Bolt	Deadlatch	Backset (mm)
<b>EB260M-N</b>	Solenoid	Lock Bolt Status	Yes	No	No	35
<b>EB261M</b>	Solenoid	Lock Bolt Status	No	Yes	No	35
<b>EB265M</b>	Solenoid	Lock Bolt Status	No	Yes	No	55
<b>EB270M</b>	Solenoid	Lock Bolt Status	No	Yes	Yes	35



**EB260M-N**



**EB261M**



**EB265M**



**EB270M**

## Optional Cylinder & Key Accessories

### ECY-72D

Euro-profile double cylinder



The EB290M is an electric dropbolt that can be controlled by access control system. Mechanical override is possible when installed with a Euro profile cylinder or a door handle, in case of power failure. The lock is mortise mount and made of stainless steel. It is designed for use on single action door and ideal for applications where a magnetic lock is impractical.

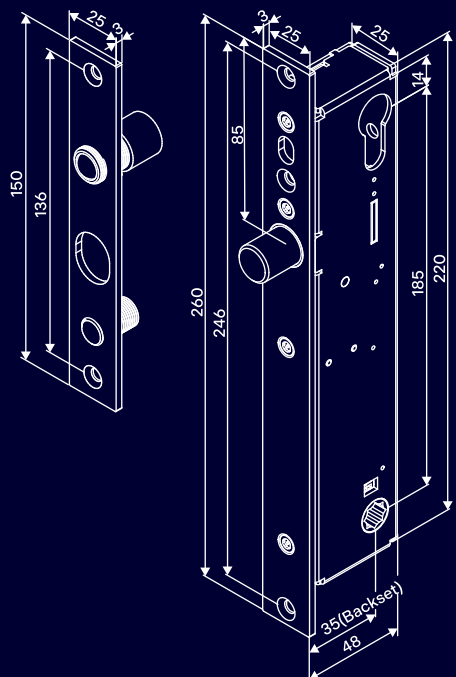
### Standard Features

- Brushed Stainless Steel Construction
- Adjustable Sensor Magnet
- Lock Bolt Monitoring
- Mechanical Override (Cylinder and Door Handle)
- Vertical Installation Only



## Specifications

<b>Operating Voltage</b>	12~24 VDC
<b>Current Draw</b>	1200mA /12 VDC (Active) (Down to 400mA After 1 Second)
<b>Operating Temperature</b>	-10~+49°C
<b>Humidity</b>	0~85% Non-Condensing
<b>Auto Relocking Time</b>	1.5/ 3/ 6/ 9 Seconds
<b>Lock Status Output</b>	1 A/ 125 VAC
<b>Locking Mode</b>	Fail-Secure
<b>Body Construction</b>	Stainless Steel
<b>Dimensions</b>	260 L x 25 W x 48 D (mm)
<b>Lock Strike Plate</b>	150 L x 25 W x 3 D (mm)
<b>Backset</b>	35 mm



# Models

Model	Mechanism	Monitoring	Relock Timer	Reversible Latch Bolt	Deadlatch	Backset (mm)
<b>EB290M</b>	Solenoid	Lock Bolt Status	No	No	No	35

# Other Models

Model	Mechanism	Monitoring	Relock Timer	Reversible Latch Bolt	Deadlatch	Backset (mm)
<b>EB260M-N</b>	Solenoid	Lock Bolt Status	Yes	No	No	35
<b>EB261M</b>	Solenoid	Lock Bolt Status	No	Yes	No	35
<b>EB265M</b>	Solenoid	Lock Bolt Status	No	Yes	No	55
<b>EB270M</b>	Solenoid	Lock Bolt Status	No	Yes	Yes	35



**EB260M-N**



**EB261M**



**EB265M**



**EB270M**

## Optional Cylinder & Key Accessories

### ECY-72D

Euro-profile double cylinder





PBH-100M-SO series latching push bars are electrified exit devices designed to work with access control as means of locking mechanism. It is designed with two starwheel bolts for strength and durability and is suitable for narrow stile doors. It is recommended to pair with key cylinders or access control devices to unlock from the exterior side. On exit, simply depress the push bar to open the door.

**Standard Features**

- For Narrow Stile Doors
- Double Starwheel Bolt Design
- Lock Status Signal Output
- Access Control Contacts
- Dogging Key for Disabling Latching Function

**Patents, Approvals, and Listings**

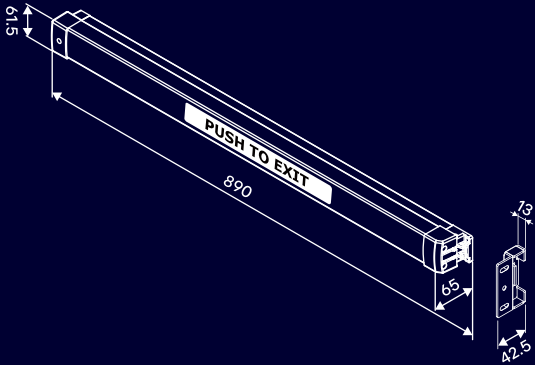
Tested to ANSI/BHMA A156.3:2020 Grade 3 & UL 305



Dimensions

Specifications

Operating Voltage	12~24 VDC/AC
Current Draw	1500 mA (Down to 500mA After 1 Second)
Solenoid Endurance	500,000 Cycles
Top Cover	Aluminium Alloy
Finish	Silver/ Black/ Dark Bronze
Relay rating	5 A/ 125 VAC
Locking Mode	Fail-Secure
Net Weight	3.4 kg
Dimensions	Push Bar : 890 L x 61.5 W x 65 D (mm) Strike Assembly : 70 L x 42.5 W x 13 D (mm)



# Models

Model	Mechanism	Finish	Dimensions (mm)
PBH-100M-SO-36	Solenoid	Sliver	890 L x 61.5 W x 65 D
PBH-100M-SO-36-BA	Solenoid	Black	890 L x 61.5 W x 65 D
PBH-100M-SO-36-US40	Solenoid	Dark Bronze	890 L x 61.5 W x 65 D

# Other Models

Model	Mechanism	Finish	Dimensions (mm)
PBH-110M-ME-36	Mechanical	Sliver	890 L x 61.5 W x 65 D
PBH-110M-ME-36-BA	Mechanical	Black	890 L x 61.5 W x 65 D
PBH-110M-ME-36-US40	Mechanical	Dark Bronze	890 L x 61.5 W x 65 D

The PBH-350 series electromechanical push bars are latching exit devices designed to work with access control systems on emergency exit doors. When the bar is depressed, the micro switch will activate and quickly unlock the door for exit. It features high preload capability of 500 lbs to ensure smooth exit in an emergency. Monitoring functions also offers enhanced security. The PBH-350LD model has a bi-colour LED indicator that allows people to locate the bar in the dark quickly and easily.

### Standard Features

- Push Bar Monitoring
- Latch Status Monitoring
- Preload Up to 500 lbs
- Aluminium Alloy Cover
- Bi-Colour Green/Red LED (**PBH-350LD** Only)

### Patents, Approvals, and Listings

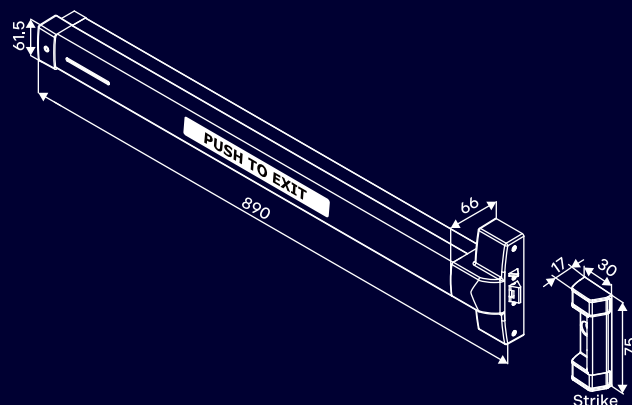
Taiwan Patent: M509839



### Dimensions

## Specifications

<b>Operating Voltage</b>	12 or 24 VDC
<b>Preload</b>	Up to 500 lbs
<b>Static Strength</b>	1,500 lbs
<b>Top Cover</b>	Aluminium Alloy
<b>Net Weight</b>	4.76 Kg
<b>Push Bar Monitoring Output</b>	5A/125VAC
<b>Latch Status Output</b>	3A/125VAC
<b>Locking Mode</b>	Fail-Safe
<b>Dimensions</b>	Push Bar 890 L x 61.5 W x 66 D (mm) Strike Assembly: 75 L x 17 W x 30 D (mm)



# Models

Model	Current Draw	Output	Delayed Egress	Bi-Colour LED (Red/Green)
PBH-350	285mA/12VDC 220mA/24VDC	Push bar Latch status	No	No
PBH-350LD	415mA/12VDC 250mA/24VDC	Push bar Latch status	No	Yes
PBH-350DE	285mA/12VDC 220mA/24VDC	External alarm 2nd fail-safe lock	Yes	No

## Optional Accessories



DL-200A



DL-330



DL-350




DL-370

# GIANNI

**Gianni Industries, Inc. has long been recognised by our customers as GEM, an acronym for "Gianni Electro Magnet." As part of our unwavering dedication to growth and innovation, we're thrilled to introduce our revitalized brand identity, pivoting towards embracing our company name, GIANNI, as the focal point of our new image.**

**Our core value has always been Innovative Design, Craftsmanship & Commitment to Quality and these principles will remain at the heart of everything we do.**

**Join us as we embark on this transformative journey, where every aspect of our brand reflects our renewed energy, purpose, and commitment to excellence.**



**Innovative Designs  
Craftsmanship  
& Commitment to Quality**



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