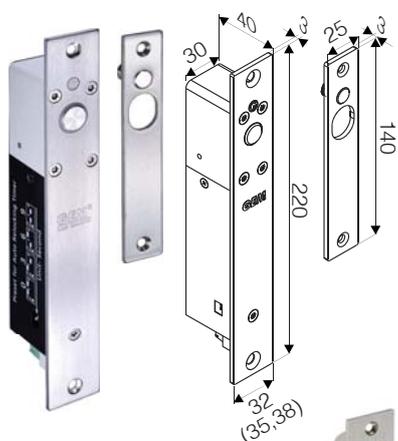


Surface Mount

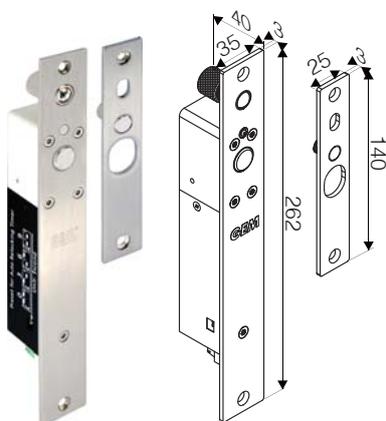
Unit: mm



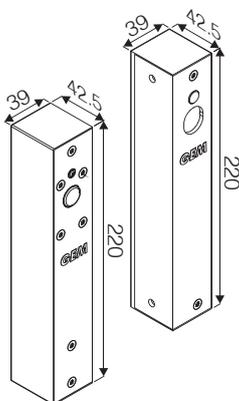
EB220N/NDB/NDS
Features adjustable sensor magnet; 32/35/38 mm faceplate options available

EB262N/NDB/NDS

Features adjustable sensor magnet and ball catch



Surface Mount

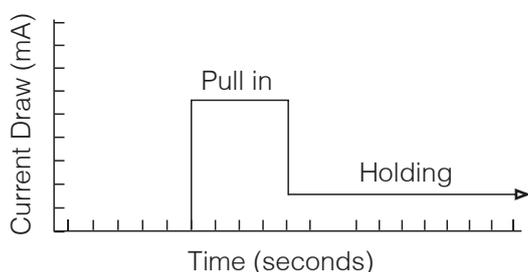


EB400NDB/NDS

Electric dropbolts with full surface mount stainless steel housing

Energy Saving Design

After the dropbolt is properly aligned and locked, the reed switch will turn off and the current draw drops from 0.9A to 0.3A to prolong its life.



Electric Dropbolts EB220/EB262/EB400 Fail-Safe Series

EB220, EB262 and EB400 Series are a comprehensive range of fail-safe electric dropbolts and are designed for mortise and surface mount installations. Optional bracket is also available for semi-glass mount.

Our design features energy saving circuitry that the bolt will retract and project until the reed switch senses that the door is properly aligned and closed. Once the door is closed, door position sensor will cut off power to the reed switch to prevent tailgating and preserves energy consumption.

Standard Features

- Horizontal or vertical installation
- Energy saving circuitry design
- Vandal resistant - the reed switch cannot be deceived using a magnet
- Bolt status sensor
- Relock time delay of 1, 3, 6, 9 seconds

Optional Features

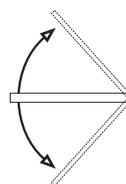
- Adjustable ball catch (EB262N Series)
- Door position sensor (For NDS & NDB Models)
- Door ajar alarm 80 dB, selectable door ajar time 10/20/30/60 seconds (For NDB Models)

Specifications

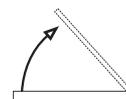
- Power Input: 12 VDC (voltage tolerance: $\pm 10\%$)
- Fail-Safe (Power to Lock)
- Current Draw: Pull in: 0.9A, Holding: 0.3A (at 20°C)
- Operating Temperature: -10~45°C
- Lock's surface temperature (when powered): current temperature +20°C
- Magnetic bolt status output (SPDT rated 3A/30VDC) indicates bolt is in a locked or unlocked status.
- Door position status output (SPDT rated 0.25A/30VDC) indicates door is closed or open
- Endurance Test: over 500,000 cycles.
- Housing Material: stainless steel

Double Action Doors

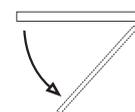
Electric dropbolts are specially designed for use on double swing doors. They can also be installed on both outswing and inswing doors.



Double action door



Inswing



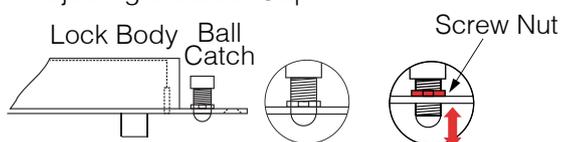
Outswing

Models & Features

Models	EB220N	EB220NDS	EB220NDB	EB400NDS	EB400NDB	EB262N	EB262NDS	EB262NDB	UBK-262N
Mounting Style	Mortise			Surface		Mortise			Glass
Dimensions (mm)	32 x 220 x 40			39 x 220 x 42.5		35 x 262 x 40			
Bolt Status Sensor	●	●	●	●	●	●	●	●	
Relock Time Delay	●	●	●	●	●	●	●	●	
Door Position Status		●	●	●	●		●	●	
Door Ajar Alarm			●		●			●	

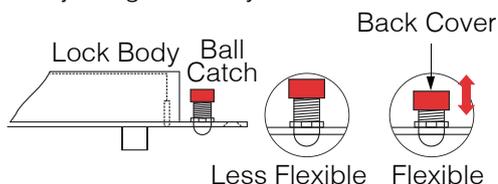
Adjusting the Ball Catch (EB262 Series)

Adjusting the Door Gap



The ball catch can be extended or shortened by turning the screw nut to make proper contact with the strike plate.

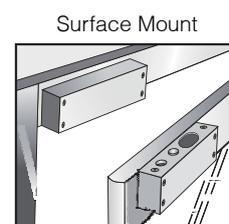
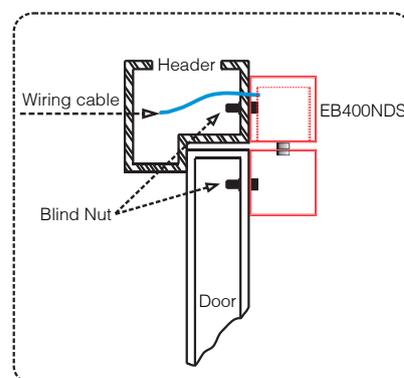
Adjusting Flexibility



The ball catch includes a spring and can be adjusted by turning the back cover for desired flexibility.

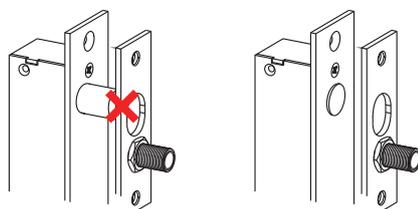
Horizontal or Vertical Installation

GEM's electric dropbolts can be installed either horizontally at the top or bottom of the door frame or vertically on the side of the door frame.



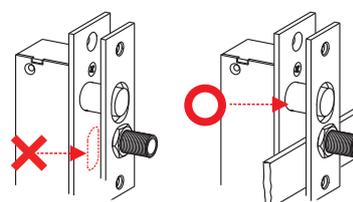
Auto-detective circuitry

The unique intelligent logical circuit in GEM's electric dropbolts keeps the bolt retracted until the magnet sensor detects the electric dropbolt as the door swings by on closing. The bolt status sensor will detect if the door is properly aligned and locked. If it isn't the bolt will continue to retract and project until it is.



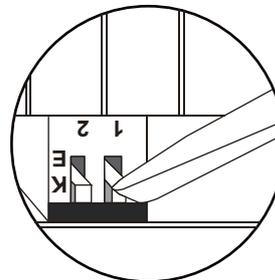
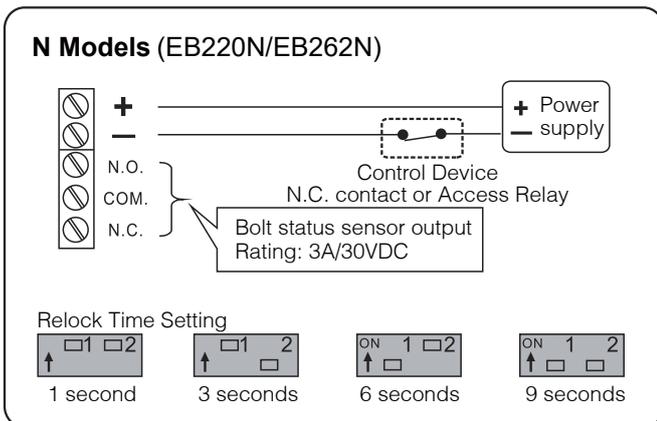
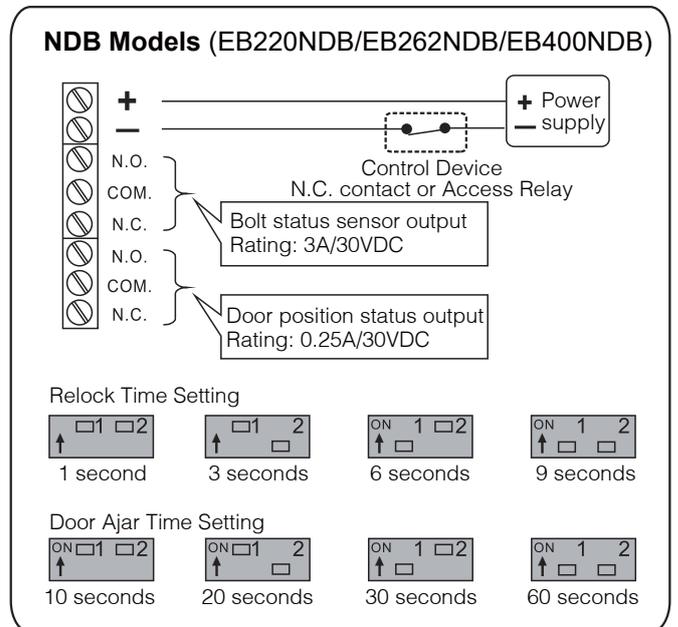
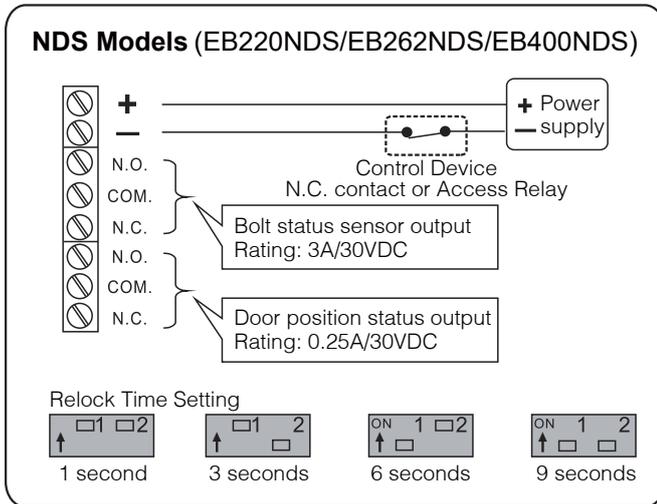
Vandal Resistant

The vandal resistant circuitry means the reed switch can't be fooled into projecting the electric dropbolt unless the door is actually closed. The reed sensor automatically disconnects after the bolt is projected to enhance security of the lock. The door position sensor also prevents tailgating.



Connecting Diagrams

Make sure that the “+” and “-” wires are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by product warranty.



We recommend using a flathead screwdriver to adjust the relock time setting.

Optional Bracket



UBK-262N

Semi Glass Door Mount
Glass door U-bracket for the magnet sensor of EB220N/262N;
Suitable for glass door thickness 10~12 mm

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.