Magnetic Door Holder & Releasing Devices

Field Selectable High Holding Force, 75 or 110lbs
For Self Closing Fire & Smoke Barrier Doors
Door Released & Closed Upon Power Loss or Fire Life Safety System Activation

SDC EH Series magnetic door holders, are designed to hold doors open and release the door by remote switch or fire life safety command center activation. Primary application includes holding and releasing of fire rated doors that are required to provide a barrier for fire and smoke in an emergency or the convenience of door closure by remote control.

Features

Choice of 25, 30, 35 or 40lbs holding force
Determined by units specified voltage

Very low power consumption
Reduced power supply requirements & energy costs
15mA, 20mA or 40mA (see performance data)

High Holding Force standard*
Reduces stock or need to special order high holding force
Determined by field selected voltage input
*Not available with 24/220V units

Choice of 3 dual AC/DC voltages

1224 Voltage Inputs
12V/30lbs; 24V/30lbs; Apply 24V to 12V input for 75lbs

24120 Voltage Input
24V/40lbs; 120V/35lbs; Apply 120V to 24V input for 110lbs

24220 Voltage Inputs
24V/40lbs; 220V/25lbs. *High holding force not available

Self aligning catch plate & adjustable magnet centerline
Ball pivot assembly enables full plate contact and holding force. Optional adjustable rod compensate for extreme misalignment up to 4 inches. Slotted mounting holes enable adjustment of magnet centerline.

Screw terminal block input connections
No wire nuts or pigtails for simple and neat wiring.

Innovative installation
Eliminates need for secondary alignment adjustments

Models

EH Series Magnetic Door Holder
Choice of 5 Durable Die Cast Models

EH10 Flush Mount
EH20 Semi-Flush Mount
EH30 Surface Mount
EH40 Floor Mount
EH42 Double Floor Mount

Performance Specifications

Certifications:
UL listed
Meets ANSI 156.15 for C00011
California State Fire Marshall listed (CSFM)
**Performance Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>DC/mA</th>
<th>AC/mA</th>
<th>Terminals</th>
<th>LB.</th>
<th>KG.</th>
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<tr>
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<td>40</td>
<td>38</td>
<td>C&amp;L</td>
<td>30</td>
<td>13.6</td>
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<tr>
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<td>24V</td>
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<td>36</td>
<td>C&amp;H</td>
<td>30</td>
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<td>24V</td>
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<td>19</td>
<td>C&amp;L</td>
<td>40</td>
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<tr>
<td></td>
<td>120V</td>
<td>—</td>
<td>20</td>
<td>C&amp;H</td>
<td>35</td>
<td>15.8</td>
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<td>C&amp;L</td>
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<td></td>
<td>220V</td>
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<td>15</td>
<td>C&amp;H</td>
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**HIGH HOLDING FORCE / SPECIAL APPLICATIONS**

<table>
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<tr>
<th>Model</th>
<th>Voltage</th>
<th>DC/mA</th>
<th>AC/mA</th>
<th>Terminals</th>
<th>LB.</th>
<th>KG.</th>
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</tbody>
</table>

To obtain performance values in high holding force table above apply high listed voltage to low voltage terminals (C & L). NOTE: This configuration can only be applied to models 1224 & 24120.

**Materials:** Zinc alloy  

**Voltage:** Standard dual voltage AC or DC inputs of 12&24V, 24&120V, 24&220V models  

**Holding Force:** Typical holding force of 25-40 pounds; performance value can be increased to 75 lbs or 110 lbs on special applications (see performance data)  

**Mount:** Single or double coil floor, surface, flush, and recessed mount  

**Total Projection:** Flush mount: 2-11/32” (60mm)  
Semi-Flush mount: 3-1/16” (78mm)  
Surface mount: 4-5/8” (117mm)  
Floor mount (single door): 5” (127mm)  
Floor mount (double door): 9-5/8” (244mm)  

**Fasteners:** Hardware package, mounting bracket  

**Finishes:** Chrome Powder Coat, 605 Brass Plated, 625 Chrome Plated  

**Notes:** Optional aluminum extension and misalignment rods available  
Drill fixture available  
Replacement catch plate and catch plate assembly available  
Adhesive template included
**Accessories**

**Extension Rods:**
Extensions rod(s) may be required to ensure proper installation by providing increased reach for the Armature Catch Plate. Adjustable Extension Rods provide increased operational alignment where needed to ensure the best door holder operation and performance.

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**Extension Rod**
Refer to Figure A to determine correct rod length for each individual openings installation and adjustability requirements.

- **EHR02** 1/2" Extension Rod
- **EHR1** 1" Extension Rod
- **EHR15** 1 1/2" Extension Rod
- **EHR2** 2" Extension Rod
- **EHR3** 3" Extension Rod
- **EHR4** 4" Extension Rod
- **EHR5** 5" Extension Rod

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**Adjustable Extension Rod**

- **EHRA15** 1 1/2" Adjustable Extension Rod
- **EHRA4** 4" Adjustable Extension Rod

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**Specify Finish Example:**
- **EHR3A**
- **A Chrome Powder Coat**
- **P 625 Chrome Plated**
- **C 605 Brass Plated**

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**How To Determine Extension Rod & Adjustable Rod Length**

**Extensions Rod Application:**
Refer to Fig. I for Aligned Catch Plate and Door Holder.

**Adjustable Rod Application:**
Refer to Fig. II for Misaligned Catch Plate and Door Holder.

1. Hold door open at desired position.
2. Measure distance between door and wall.
3. Subtract below dimension indicated for door holder style.

- **Flush Mount:** Subtract 3" (76mm) from measured distance to determine minimum rod length.
- **Recessed Mount:** Subtract 2-3/8" (60mm) from measured distance to determine minimum rod length.
- **Surface Mount:** Subtract 4-5/8" (76mm) from measured distance.

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**Extension Rod Applications**

**Dual Voltage**
12/24V, 24/120V or 24/220V

**Fig. A**

**Fig. I**

**Fig. II**

Continue on next page
**Accessories**

**EHBB Surface Back Box**  
2-25/32” x 4-7/8” x 1-1/2”  
(71mm x 124mm x 38mm)  
Supplied with EH30, EH40, EH42

**EHCP Catch Plate**  
Replacement for the catch plate assembly

**EHSB Catch Plate Assembly**  
Swivel design allows catch disc to move in all directions to assist with slight misalignment issues

**EHDF Drilling Fixture**  
Attach to door for quick and accurate hole location

**EHW Extension Wrenches**  
Used to tighten extension rods to catch plate assembly