EH Series
Magnetic Door Holder & Releasing Device

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.

- 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

**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

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

- **Innovative installation**
  Eliminates need for secondary alignment adjustments

- **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.

**MODELS**

Choice of 5 Durable Die Cast Models

- **EH10**  Flush Mount
- **EH20**  Semi-Flush Mount
- **EH30**  Surface Mount
- **EH40**  Floor Mount
- **EH42**  Double Floor Mount
HOW TO ORDER

1| SPECIFY MODELS  
EH10 Flush Mount  
EH20 Semi-Flush Mount  
EH30 Surface Mount  
EH40 Floor Mount, Single  
EH42 Floor Mount, Double

2| SPECIFY VOLTAGE  
EH1224 12/24VAC/DC  
EH24120 24VAC/DC/120VAC  
EH24220 24VAC/DC/220VAC

3| SPECIFY FINISH  
EH1224 A Chrome Powder Coat  
EH24120 P 625 Chrome Plated  
EH24220 C 605 Brass Plated

PRODUCT SKU SAMPLE: EH30 1224 A

SPECIFICATIONS

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, or recessed mount
Total Projection  
Flush mount: 2-11/32”  
Semi-flush mount: 3-1/16”  
Surface mount: 4-5/8”  
Floor mount (single door): 5”  
Floor mount (double door): 9-5/8”
Fasteners Hardware package, mounting bracket
Notes  
Optional aluminum extension and misalignment rods available  
Drill fixture available  
Replacement catch plate and catch plate assembly available  
Adhesive template included

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>
</tr>
</thead>
<tbody>
<tr>
<td>1224</td>
<td>12V</td>
<td>40</td>
<td>38</td>
<td>C&amp;L</td>
<td>30</td>
<td>13.6</td>
</tr>
<tr>
<td></td>
<td>24V</td>
<td>40</td>
<td>36</td>
<td>C&amp;H</td>
<td>30</td>
<td>13.6</td>
</tr>
<tr>
<td>24120</td>
<td>24V</td>
<td>20</td>
<td>19</td>
<td>C&amp;L</td>
<td>40</td>
<td>18.1</td>
</tr>
<tr>
<td></td>
<td>120V</td>
<td>—</td>
<td>20</td>
<td>C&amp;H</td>
<td>35</td>
<td>15.8</td>
</tr>
<tr>
<td>24220</td>
<td>24V</td>
<td>20</td>
<td>19</td>
<td>C&amp;L</td>
<td>40</td>
<td>18.1</td>
</tr>
<tr>
<td></td>
<td>220V</td>
<td>—</td>
<td>15</td>
<td>C&amp;H</td>
<td>25</td>
<td>11.3</td>
</tr>
</tbody>
</table>

HIGH HOLDING FORCE / SPECIAL APPLICATIONS

<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>
</tr>
</thead>
<tbody>
<tr>
<td>1224</td>
<td>24V</td>
<td>85</td>
<td>81</td>
<td>C&amp;L</td>
<td>75</td>
<td>34.0</td>
</tr>
<tr>
<td>24120</td>
<td>120V</td>
<td>—</td>
<td>100</td>
<td>C&amp;L</td>
<td>110</td>
<td>49.8</td>
</tr>
</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.
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.

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” from measured distance to determine minimum rod length.
      - Recessed Mount: Subtract 2-3/8” from measured distance to determine minimum rod length.
      - Surface Mount: Subtract 4-5/8” from measured distance to determine minimum rod length.

HOW TO ORDER
1 | SPECIFY MODELS
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  1½” Extension Rod
   EHR2   2” Extension Rod
   EHR3   3” Extension Rod
   EHR4   4” Extension Rod
   EHR5   5” Extension Rod
Adjustable Extension Rods
   EHRA15 1-1/2” Adjustable Extension Rod
   EHRA4  4” Adjustable Extension Rod
2 | SPECIFY FINISH
   A  Chrome Powder Coat
   P  625 Chrome Plated
   C  605 Brass Plated
## ACCESSORIES

<table>
<thead>
<tr>
<th><strong>EHBB</strong> SURFACE BACK BOX</th>
<th><strong>EHCP</strong> CATCH PLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-25/32” x 4-7/8” x 1-1/2” Supplied with EH30, EH40, EH42</td>
<td>Replacement for the catch plate assembly</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EHDF</strong> DRILLING FIXTURE</th>
<th><strong>EHW</strong> EXTENSION WRENCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attach to door for quick and accurate hole location</td>
<td>Used to tighten extension rods to catch plate assembly</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EHSB</strong> CATCH PLATE ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel design allows catch disc to move in all directions to assist with slight misalignment issues</td>
</tr>
</tbody>
</table>