

# ESL



## Floor-Mount Electromagnetic Door Holder Installation Instructions

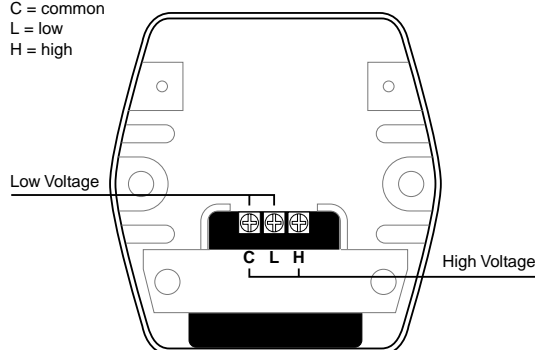
### Description

The Floor-Mount Electromagnetic Door Holder is designed for use in fire door applications. The door holder is controlled by a ULC Listed fire alarm control panel.

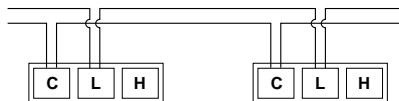
### Wiring Instructions

#### Voltage References

C = common  
L = low  
H = high



#### Low Voltage Application



#### High Voltage Application



**Important:** When you connect the wiring for the single-coil or double-coil 24/120 door holder, attach the green wire to the earth ground.

### Selecting a Location for the Conduit

When installing the door holder, the conduit wiring is pulled through the center of the mounting gasket and base plate. To allow enough space for the door holder assembly, make sure there is a 6-inch diameter clearance around the conduit location.

All wiring must conform to the National Electric Code (NEC) and/or local codes having jurisdiction.

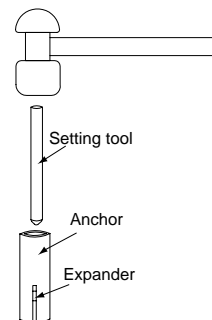
### Installing the Electromagnetic Assembly

#### Step 1:

Using the gasket as a template, mark the four outer corner drill hole locations on the floor. Check the alignment of the gasket to ensure the door magnet(s) will be as flush as possible with the door(s).

#### Step 2:

Drill holes 3/8 inch diameter by 1 to 1 1/8 inch (preferably 1 1/16 inch) deep in floor. Insert the cement anchors in the drill holes. Hammer each anchor down until it is flush with the floor, and then expand the anchor with the provided setting tool.



#### Step 3:

Line up the gasket and base plate with the holes, pull the conduit wiring through the center hole, and place the gasket and base plate on the floor. Make sure the base plate has the extruded-thread side up.

#### Step 4:

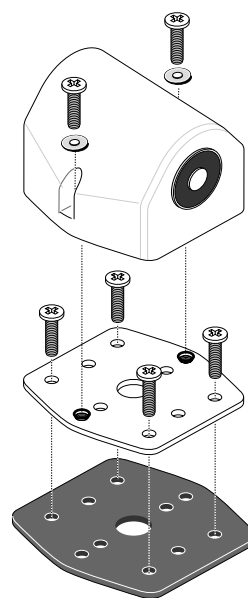
Secure the gasket and base plate to the floor with the four retaining screws.

#### Step 5:

Connect the conduit wiring to the electromagnetic assembly. See *Wiring Instructions*.

#### Step 6:

Line up the two screw holes on the electromagnetic assembly with the two raised screw holes on the base plate, and then place the assembly over the base plate and onto the gasket. Make sure each magnet is facing a door (one or two depending on the model).



#### Step 7:

Secure the electromagnetic assembly to the base plate using the two retaining screws and sealing washers. Tighten screws firmly to insure water-tight seals between the housing, gasket, and floor.

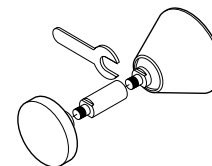
### Installing the Door Catch Assembly

With the electromagnetic assembly securely fastened, aligned, and energized, proceed with the installation of the door catch assembly.

**Note:** If door extension rods are required, install them before you proceed with this procedure.

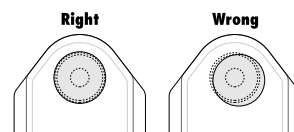
#### Step 1:

Separate the alignment template from the mounting template.



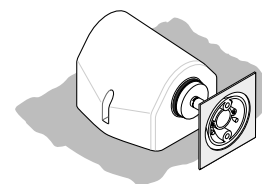
#### Step 2:

Place the swivel catch plate against the magnet. Make sure it is centered over the magnet.



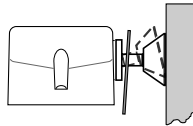
#### Step 3:

With the catch plate attached to the magnet, peel the backing off of the mounting template, and slide it over the base of the door catch. Make sure the adhesive side is facing the door.



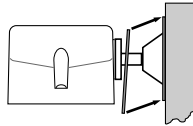
#### Step 4:

Gently open the door until it touches the base of the door catch. Adjust the base until it lies flat against the door.



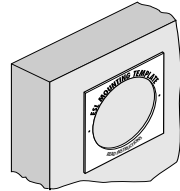
#### Step 5:

While applying slight pressure on the door, slide the mounting template over the base to the door surface, and apply pressure to the template in a few spots.



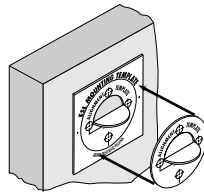
#### Step 6:

Gently close the door to expose the mounting template. Apply final pressure to the mounting template to ensure it is securely in place.



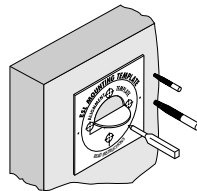
#### Step 7:

Insert the alignment template into the center of the mounting template. Use the tab to rotate the alignment template for a fine adjustment, while holding the alignment template in the door.



#### Step 8:

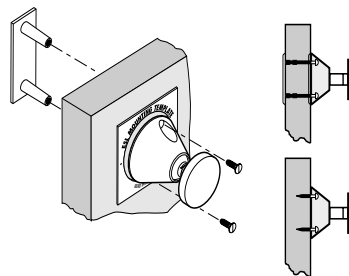
**If you are using the optional door back plate for hollow doors**, center punch the points indicated on the alignment template for either horizontal or vertical installation. For best results, drill an 1/8 inch diameter pilot hole, and then a 5/16 inch diameter hole.



**If you are installing the door catch assembly directly to a solid door**, drill an 1/8 inch diameter pilot hole approximately 1 to 1 1/2 inch deep. Be careful not to drill through the door.

#### Step 9:

Remove only the alignment template from the door. Place the base of the door catch in the center of the mounting template. Align the screw holes on the base with the dots on the mounting template.



#### Step 10:

Secure the door catch assembly in place with the two retaining screws, and remove the mounting template.

#### Step 11:

Test the door holder to make sure it is operating properly. Place the door in the hold (open) position. If the door shuts, check the alignment of the catch plate and magnet. Also, check to make sure the power is turned on at the control panel and the magnet is energized.

## Specifications

Input voltage.....	12/24VDC/VAC, 24/120VAC (supplied by a ULC listed control panel)
Current consumption:	
Single-coil 24/120.....	15mA
Single-coil 12/24.....	30mA
Double-coil 24/120.....	30mA
Double-coil 12/24 .....	60mA
Electromagnetic Assembly:	
Width/Length/Depth .....	4.7" x 4.9" x 3 6"
Weight (single-coil) .....	2.5 lbs.
Weight (double-coil) .....	3.3 lbs.
Door Catch Assembly:	
Width/Length/Depth .....	2.5" x 2" x 2"
Weight .....	0.8 lbs.
Listings.....	ULC
Case Size.....	6

## Product Ordering

Model Number	Description
DHFM1-1224CAN	Single-coil, 12VDC/VAC 24VDC/VAC Floor-mount Door Holder, ULC
DHFM1-24120CAN	Single-coil, 24VDC/VAC 120VAC Floor-mount Door Holder, ULC
DHFM2-1224CAN	Double-coil, 12VDC/VAC 24VDC/VAC Floor-mount Door Holder, ULC
DHFM2-24120CAN	Double-coil, 24VDC/VAC 120VAC Floor-mount Door Holder, ULC
DH-ER1	1-inch Catch Plate Assembly Extension Rod
DH-ER3	3-inch Catch Plate Assembly Extension Rod
DH-BPC	Door Holder Back Plate
DHARM-C	Catch Plate/Armature
DHW	Extension Rod Wrenches