DH24120 Series

Electromagnetic Door Holders

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General

The DH24120 series of electromagnetic door holders are constructed of durable die-cast metal finished in high-lustre double chrome or brass plating.

All DH24120 models include standard dual-voltage AC or DC inputs (24V and 120V), which reduces warehouse stocking requirements. The current draws are also extremely low–only 0.020 mA at 24VDC–which lowers the overall cost of running an installed system.

Other features include single- or double-coil floor mounting, surface mounting, and direct wall mounting. No brackets are required.

The DH24120 series door holders offer installation using an adhesive template assuring correct alignment without secondary adjustments. Accessories include extension and misalignment rods (various lengths) for correct alignment between door and wall at distances greater than 12.0 inches (30.48 cm) and misalignment over 4.0 inches (10.16 cm).

Basic units offer superior holding force and low residual magnetism. DH24120 series models can operate at higher listed voltages to produce holding forces greater than 100 pounds (45.3 kg) for special applications.



Voltage	DC/ mA	AC/ mA	Terminals	LB.	KG
24 V	0.040	0.036	Common & High Voltage	30	13.6
24 V	0.020	0.019	Common & Low Voltage	40	18.1
24 V	0.020	0.019	Common & Low Voltage	40	18.1
24 V	0.085	0.081	Common & Low Voltage	75	34.0
120 V	—	0.100	Common & Low Voltage	110	49.8
NOTE: Holding forces listen in above table correspond with shaded values; non-shaded values are slightly less.					
HIGH HOLDING FORCE/SPECIAL APPLICATIONS: To obtain performance values in table above, apply high voltage to low voltage terminals (C & L) on a DH24120 series model.					

Features

- Very low current draw.
- Superior holding force and low residual magnetism.
- Durable die-cast metal.
- High lustre double chrome or brass plating.
- Dual-voltage AC or DC inputs.
- Terminal block connections.
- Single- or double-coil floor, surface, and direct mounting (no brackets required).
- Extension and misalignment rods.

Standard Application

The DH24120 series door holders are designed to hold self-closing swinging doors open until energized by a remote sensing device responding to smoke, heat, or flames, alarm systems, or a switch. When de-energized, the door holder releases the door, enabling it to swing closed to check the spread of smoke, heat, or flames. The door holder can be used in other remote door-closing applications as well.

The units are recommended for automatic area protection against smoke, heat, or flames in schools, hospitals, nursing homes, offices, and other public buildings of all kinds. The DH24120 series of electromagnetic door holders are specially engineered for easy connection to detectors, sensors, alarm systems, and annunciators.

Specifications

Operating Environment Temperature: 50°F to 104°F (10°C to 40°C).

Operating Environment Humidity: 20% to 80% (non-condensing).

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S2985.
- **ULC Listed:** R19958.

Product Line Information

Electromagnetic Door Holders

DH24120FPC: Semi-flush, powder coated chrome.

DH24120FB: Semi-flush, plated, brass.

DH24120FD: Semi-flush, powder coated dark bronze.

DH24120SPC: Surface mount, powder coated, chrome.

DH24120SB: Surface mount, plated, brass.

DH24120SPD: Surface mount, powder coated, dark bronze.

DH24120WPC: Recessed, powder coated, chrome.

DH24120WB: Recessed, plated, brass.

DH24120WD: Recessed, powder coated, dark bronze.

DH24120GPC1: Ground mount, single door, powder coated, chrome.

DH24120GB1: Ground mount, single door, plated, brass.

DH24120GPD1: Ground mount, single door, powder coated, dark bronze.

DH24120GPC2: Ground mount, double door, powder coated, chrome.

DH24120GB2: Ground mount, double door, plated, brass.

DH24120GPD2: Ground mount, double door, powder coated, dark bronze.

Electromagnetic Door Holder Extensions

DHE.5PC: 0.5" extension rod, powder coated, chrome.

DHE.5B: 0.5" extension rod, plated, brass.

DHE.5D: 0.5" extension rod, powder coated, dark bronze.

DHE1PC: 1" extension rod, powder coated, chrome.

DHE1B: 1" extension rod, plated, brass.

DHE1D: 1" extension rod, powder coated, dark bronze.

DHE1.5PC: 1.5" extension rod, powder coated, chrome.

DHE1.5APC: 1.5" adjustable extension rod, powder coated, chrome.

DHE1.5B: 1.5" extension rod, plated, brass.

DHE1.5D: 1.5" extension rod, powder coated, dark bronze.

DHE2PC: 2" extension rod, powder coated, chrome.

DHE2APC: 2" adjustable extension rod, powder coated, chrome.

DHE2B: 2" extension rod, plated, brass.

DHE2D: 2" extension rod, powder coated, dark bronze.

DHE3PC: 3" extension rod, powder coated, chrome.

DHE3B: 3" extension rod, plated, brass.

DHE3D: 3" extension rod, powder coated, dark bronze.

DHE4PC: 4" extension rod, powder coated, chrome.

DHE4APC: 4" adjustable extension rod, powder coated, chrome.

DHE4AB: 4" adjustable extension rod, plated, brass.

DHE4AD: 4" adjustable extension rod, powder coated, dark bronze.

DHE5PC: 5" extension rod, powder coated, chrome.

DHE5B: 5" extension rod, plated, brass.

DHE5D: 5" extension rod, powder coated, dark bronze.

Electromagnetic Door Holder Accessories

DHCPC: Catch plate, powder coated, chrome.

DHCPB: Catch plate, plated, brass.

DHCPD: Catch plate, powder coated, dark bronze.

DHSBPC: Swivel base, powder coated, chrome.

DHSBB: Swivel base, plated, brass.

DHSBD: Swivel base, powder coated, dark bronze.

DHBBPC: Surface mount back box, powder coated, chrome.

DHBBB: Surface mount back box, plated, brass.

DHBBD: Surface mount back box, powder coated, dark bronze.

DHDF: Swivel base mounting drill fixture.

DHW: Extension Wrench (2 pcs.).

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