







Electro-Magnetic Door Holders Cross Reference Chart								
Туре	ABH*	ASSA Abloy*						
		Rixson*	Sargent*	LCN*	Dorma*			
Recessed Mount	2100	FM998 FM997 FM994	1561	SEM7850 SEM7840 SEM1980 SEM1970	EM-504 EM-505			
Surface Mount	2300	FM996	1560	SEM7830 SEM1960	EM-508			
Flush Mount	2400	FM990	-	-	EM-509			
Low Profile - Flush Mount	2400L	-	-	-	-			
Extra Low Profile - Flush Mount	2400LS	FM989	-	-	-			
300 lb. Heavy Duty - Surface Mount	2510	FM993	-	-	-			
Floor Mount - Single	2600	FM980	1562	SEM7820	EM-501			
Floor Mount - Double	2700	FM981	1563	-	EM-502			

*Brand names are trademarks or registered trademarks of their respective companies.

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General Info



Where would I use it?

Electromagnetic door holders can be used in any application needing remote door release.

- Fire rated openings
 - Door is released when magnet is tripped by a smoke alarm or detector
- Private offices
 - Door releases when prompted from remote switch

The ABH Advantage

- Magnets are tri-voltage for installation and stocking ease
- Door armature has two pivot points which each have 360° mobility
- Magnetic coil is **tri-voltage** and can be wired for 12VDC, 24 VAC, 24 VDC or 120 VAC.
- All metal components do not contain any plastic components.
- Most models come with a **1**" **extension for FREE** and do not require an extension adapter piece
- Extension rods thread together easily allowing installers to mix and match standard sizes to achieve desired length (see D-8 for details)
- Positive release button on door armature alleviates residual magnetism
- UL and ULC listed for use on fire doors
- California State Fire Marshall approved

Warranty

ABH provides a two-year limited warranty for all its electromagnetic door holders from date of shipment.

Certifications

- UL and ULC listed for use on fire doors
- California State Fire Marshall approved
- Meets or exceeds ANSI/BHMA A156.15 Grade 1

Troubleshooting

Problem	Possible Cause				
Magnet Does Not Hold	Ð	Power not on or not plugged in.			
	0 0 0 0 0 0 0 120V COM 24V 12V	Ground wire not connected to "COM" on terminal strip. Power wire not connected to correct power slot on terminal strip.			
	Door Armature Head Magnetic Coil Ring	Door Armature head is not sitting completely flat across magnetic coil ring. Swivel door armature head (360° mobility) to make complete contact.			
		Line voltage from power supply may not be correct (Range +/-10%).			
Holding Force Weak	X	Dirt or cleaning solvent on armature head or magnetic coil. Turn power off and wipe with very fine emery cloth.			
	0 0 0 0 0 120V COM 24V 12V	Power wire not connected to correct power slot on terminal strip. 12VAC input instead of 12VDC. For DC Coils reverse polarity. Switch			
		position of wires on terminal strip.			
Humming Sound	Head Magnetic Coil Ring	Door Armature head is not sitting completely flat across magnetic coil ring. Swivel door armature head (36 mobility) to make complete contact.			





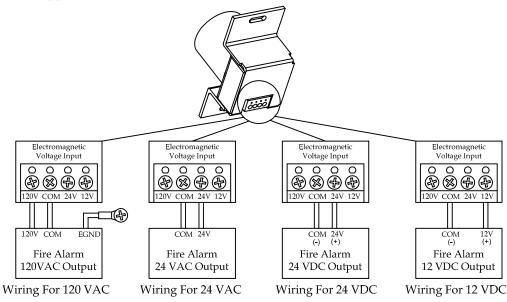
Electrical Schematics & Technical Data

Technical Data

- Magnets are tri-voltage for installation and stocking ease
- Low current draw provides savings in power and battery back-ups
- 35 lb. holding force
 - Door can be manually pulled closed with enough force
 - Individually tested for voltage and holding power prior to shipping
- Circuit normally closed
- Power failure automatically releases the door
- Door armature supplied with sex bolts

Operation

Electromagnets are typically used with fire alarm system. Doors are held open in the non-alarm condition. When the fire alarm control system enters the alarm condition, power to the electromagnets is cut off, causing the doors to be released and allowing the door closer to close the door. When the fire alarm control system returns to the non-alarm condition, power is restored to the electromagnet and the door can be manually returned to the open position.



Technical Data

Model	Voltage	DC/mA	DC/VA	AC/mA	AC/VA	Terminals
2100, 2300, 2400,	12 DC	60	.72	-	-	COM & 12V
2400L, 2400LS, 2600,	24 AC/DC	30	.72	30	.72	COM & 24V
2700	120 AC	-	-	30	3.6	COM & 120V
Model	Voltage	mA		VA		Terminals
2510	24 AC/DC	105		1.26		COM & 24V
2010	24 AC/ DC	10	55	1.2	.0	CONI & 24 V

NOTE: All wiring must be installed in compliance with the National Electrical Code and the local codes having jurisdiction. Proper wire gauge should be used.



Wall Mount



2100 - Recessed Wall Mount

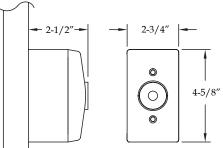
Standard Features

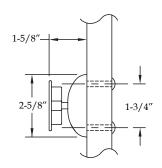
- 2-5%" total projection from wall to face of door (3-5%" if using complimentary 1" extension)
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/DC or 120V AC
- Provided with one complimentary 1" extension No charge
- Optional extension rods fill the gap between the magnet and door armature with **no special adapter piece required (see page D-8)**
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Outlet box required (not provided)
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 2.5 lbs.

2300 - Surface Wall Mount

Standard Features

- 4-1/8" total projection from wall to face of door (5-1/8" if using complimentary 1" extension)
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/ DC or 120V AC
- Provided with one complimentary 1" extension No charge
- Optional extension rods fill the gap between the magnet and door armature with **no special adapter piece required (see page D-8)**
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 3 lbs.

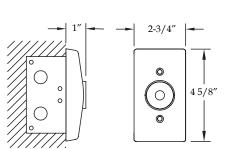


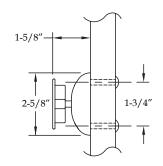




D-4 2014 ABH Mfg., Inc.

- 2-1/2"--|





Wall Mount



2400 - Flush Wall Mount

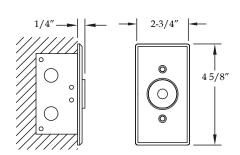
Standard Features

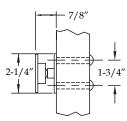
- 1-7%" total projection from wall to face of door (2-7%" if using complimentary 1" extension)
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/ DC or 120V AC
- Provided with one complimentary 1" extension No charge
- Optional extension rods fill the gap between the magnet and door armature with **no special adapter piece required (see page D-8)**
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Outlet box required (not provided)
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 2 lbs.

2400L – Flush Wall Mount with Low Profile Armature

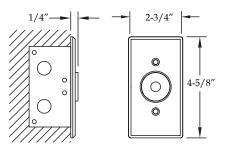
Standard Features

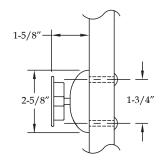
- 1-1/8" total projection from wall to face of door
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/DC or 120V AC
- Optional extension rods fill the gap between the magnet and door armature with **no special adapter piece required (see page D-8)**
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Armature's pivot point has 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 2 lbs.











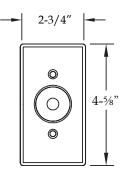
Wall Mount

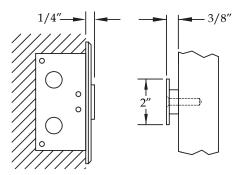


2400LS – Flush Wall Mount with Flush Mount Armature

Standard Features

- 5%" total projection from wall to face of door
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/DC or 120V AC
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Outlet box required (not provided)
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 2 lbs.

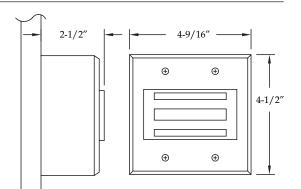


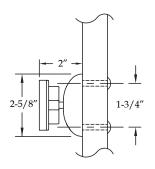


2510 -Heavy Duty Surface Wall Mount

Standard Features

- 4-½" total projection from wall to face of door (5-½" if using complimentary 1″ extension)
- 24V AC/DC magnetic coil
- Optional extension rods fill the gap between the magnet and door armature with no special adapter piece required (see page D-8)
- 300 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Armature's pivot point has 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 6 lbs.







Floor Mount



2600 - Single Floor Mount

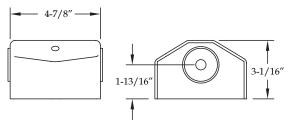
Standard Features

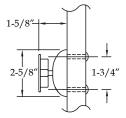
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/DC or 120V AC
- Provided with one complimentary 1" extension **No charge**
- Optional extension rods fill the gap between the magnet and door armature with **no special adapter piece required (see page D-8)**.
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Outlet box required (not provided)
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 6 lbs.

2700 – Double Floor Mount

Standard Features

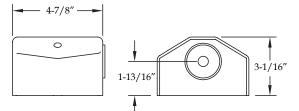
- Tri-voltage units for easy stocking and installation 12V DC, 24V AC/DC or 120V AC
- Provided with two complimentary 1" extensions No charge
- Optional extension rods fill the gap between the magnet and door armature with no special adapter piece required (see page D-8)
- 35 lb. holding force
- All metal components No plastic parts
- UL/ULC listed for smoke barrier or labeled fire doors
- Listed by the California State Fire Marshall
- Armature features two pivot points which each have 360° mobility to help door alignment and reduce installation time
- Positive release button alleviates residual magnetism
- Average weight per unit = 8 lbs.

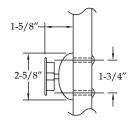




(Two doors armatures provided)



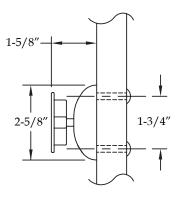




Parts



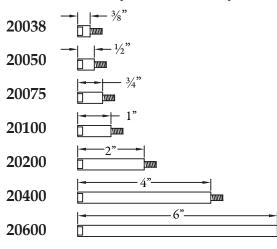
• Available in US28, S1, S2, S3, S4, S5, US32D or US32 finishes



20020 (2100, 2300, 2400, 2600 & 2700 models)

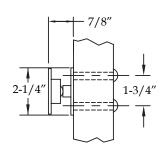
Extensions

• Available in zinc plated finishes only



S20020

- Custom Armature with Extension for lengths greater than 10"
- Specify overall length required from face of door to face of magnet
- Available in US28, S1, S2, S3, S4, S5, US32D or US32 finishes (extension red portion always provided in US32D)



24020 (2400L model)

2-5/8" 2-5/8" 1-3/4" 25020

2'

(2510 model)

Innovation, Quality,

Customer Service...

Electrical Boxes

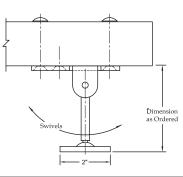
• Available in US28, S1, S2, S3, S4 or S5 finishes 23005 - 2300 model 25005 - 2510 model

Wall Covers

Available in US28, S1, S2, S3, S4, S5, US32D or US32 finishes
20012 - 2100 & 2300 models
20014 - 2400, 2400L & 2400LS models
20015 - 2510 model

Wall Portions with Covers

- Available in US28, S1, S2, S3, S4, S5, US32D or US32 finishes **21030** 2100 model
- **23030** 2300 model
- **24030** 2400, 2400L & 2400LS models
- 25030 2510 model



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