

Edwards® Auxiliary Devices

1500 Series Electromagnetic Door Holders

Features

- Powder epoxy aluminum finish
- Mounting hardware included

Description

The Edwards 1500 Series Electromagnetic Door Holders provide a minimum holding force of 25 pounds. They operate on either 24V DC (.070A), 24V AC/DC (.110A/.096A), or

120V AC (.02A), depending on the model. The 1501 and 1502 series are floor mounting models. (1501 for single door applications, 1502 for double doors); the 1504, 1505 and 1509 series are flush wall mounting models that install on a standard single gang box, and the 1508 series are surface wall mounting models that install on an adapter housing which is supplied with these units.

(See page 12-52 for voltage and dimension information.)

Cat. No. 1500-7 and 1500-12 Door Holder Extension Rods allow infinite adjustment within a 6 3/8" to 12" range. See page 10-41.

Agency Approvals

- UL Listed
- FM Approved

System Design Criteria

Initiating Devices

When 2-wire ionization and/or photoelectric smoke detectors are incorporated into a 2411, 2412, 2414 or 2418 fire alarm system, you must ensure that the detector standby current (of any combination or detectors), does not exceed the allowable total standby detector current

per zone of 1500 microamps. Normally-open devices, such as manual fire stations, automatic heat detectors and waterflow switches require no standby current, and therefore can be installed in any quantity required.

Operation of a manual station, automatic heat detector or waterflow

switch on the same zone as smoke detectors will prevent the operation of smoke detectors on that zone.

To determine the maximum number of Edwards smoke detectors that can be connected to each alarm initiating circuit, total the smoke detector standby current requirements of all detectors. The following table and example may be utilized as a reference:

Cat. No.*	Detector Type	Current Requirements Head Stand-By Current
2420	Ionization	30 microamps
2430	Photoelectric	50 microamps
2432B	Photoelectric with heat	50 microamps

*2-wire application

Example:

Qty.	Detector Type	Microamps
20	2420 Ion Detectors	20 x 30 = 600
18	2430 Photo Detectors	18 x 50 = 900
Total microamps		= 1500

Signaling Appliances

When any combination of Edwards signaling appliances (horns, strobes, horn/strobes, bells) is used, the total signaling current requirements for the panel must not exceed 1.5 amps (1 amp max/circuit) for the 2411 and 4 amps (2.5 amps max/circuit) for the 2412, 2414 and 2418.

To determine the maximum number of signaling appliances that can be connected to the signaling circuit, total the signaling appliance alarm current requirements of all signaling appliances. The following table and example may be utilized as a reference:

Cat. No.	Type	Standby Current mA	Alarm Current mA
439D-(*)AW-R	6", 8" or 10" Bell	0	85
439DEX-(*)AW	6", 8" or 10" Bell	0	24
2440S-15-(±)	15 Candela Strobe	0	125†
2440S-30-(±)	30 Candela Strobe	0	185†
2440S-60-(±)	60 Candela Strobe	0	240†
2440S-15/75-(±)	15/75 Candela Strobe	0	185†
2440S-110-(±)	110 Candela Strobe	0	340†
2445H-(±)	Piezo Horn	0	10
2447TH-(±)	Electronic Horn	0	40
2450HS-15-(±)	15 Candela Piezo Horn/Strobe	0	135†
2450HS-30-(±)	30 Candela Piezo Horn/Strobe	0	195†
2450HS-15/75-(±)	15/75 Candela Piezo Horn/Strobe	0	195†
2450HS-110-(±)	110 Candela Piezo Horn/Strobe	0	350†
2452THS-15-(±)	15 Candela Elect. Horn/Strobe	0	165†
2452THS-30-(±)	30 Candela Elect. Horn/Strobe	0	225†
2452THS-15/75-(±)	15/75 Candela Elect. Horn/Strobe	0	225†
2452THS-110-(±)	110 Candela Elect. Horn/Strobe	0	380†
2455C-(±)	Chime	0	12
2457CS-15-(±)	15 Candela Chime/Strobe	0	137†
2457CS-30-(±)	30 Candela Chime/Strobe	0	197†
2457CS-15/75-(±)	15/75 Candela Chime/Strobe	0	197†
2457CS-110-(±)	110 Candela Chime/Strobe	0	352†

Example:

Qty	Cat. No.	Type	mA	Total Current
3	2445H-R	Horn	10	3 x 10 = 30 mA
4	2452THS-15/75-R	Horn/Strobe	225	4 x 225 = 900 mA
Total Signaling Current				930 mA

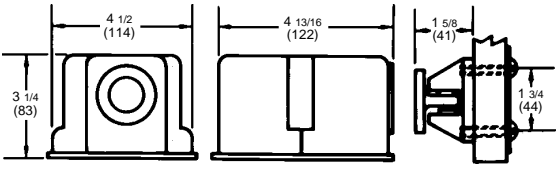
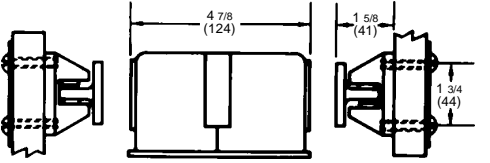
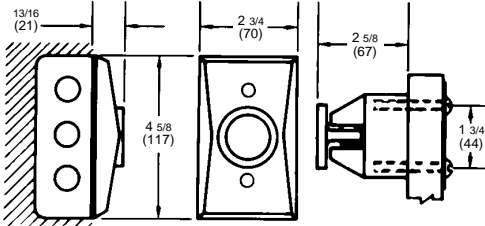
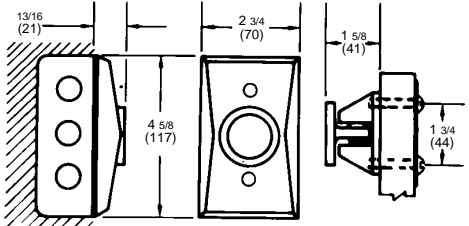
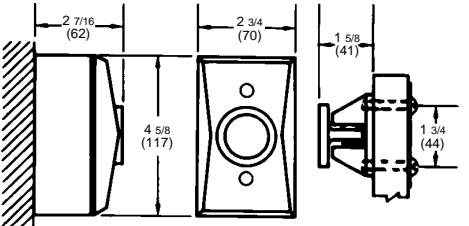
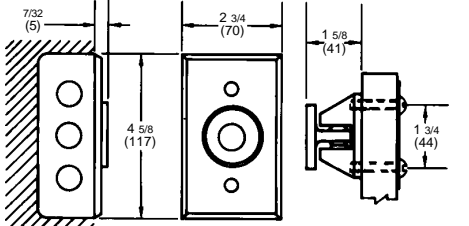
* Insert 6, 8 or 10 for 6", 8" or 10" bells respectively.

† Peak currents at 20V DC (filtered) are supplied and should be employed for determining the maximum number of signaling appliances to be used on an Indicating Appliance Circuit. Users should consult the fire alarm panel manufacturer for maximum signal load to be used on Indicating Device Circuits prior to selecting Signaling Appliances.

± Insert "R" for red or "W" for white.

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Cat. No.	Style	Dimensions (in inches and (millimeters))	Volts	Amps	VA
1501-G1	Floor Mounted (Single Door)		24 DC	.070	1.7
1501-AQ			24 AC	.110	2.6
			24 DC	.096	2.3
1501-N5			120 AC	.02	2.4
1502-G1	Floor Mounted (Double Door)		24 DC*	.070*	1.7*
1502-AQ			24 AC*	.110*	2.6*
			24 DC*	.096*	2.3*
1502-N5		*Values given per coil for double door unit	120 AC*	.02*	2.4*
1504-G1	Flush Wall Mounted (Long Catch Plate)		24 DC	.070	1.7
1504-AQ			24 AC	.110	2.6
			24 DC	.096	2.3
1504-N5			120 AC	.02	2.4
1505-G1	Flush Wall Mounted (Short Catch Plate)		24 DC	.070	1.7
1505-AQ			24 AC	.110	2.6
			24 DC	.096	2.3
1505-N5			120 AC	.02	2.4
1508-G1	Surface Wall Mounted		24 DC	.070	1.7
1508-AQ			24 AC	.110	2.6
			24 DC	.096	2.3
1508-N5			120 AC	.02	2.4
1509-G1	Completely Flush Wall Mounted		24 DC	.070	1.7
1509-AQ			24 AC	.110	2.6
			24 DC	.096	2.3
1509-N5			120 AC	.02	2.4