The Sentronic® SEM 7800 Series are heavy duty, electrically controlled door holding magnets. Magnets are fail safe and hold until the current is interrupted. A manual door closer is used to control and close the door. A choice of floor, recessed wall, or surface mounted wall magnets are available.

All SEM Series magnets are UL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15.

SEM FEATURES

- Tri-voltage design with 35 lbs. of holding force.
- Now available armature extensions from LCN (see page 11).
- SEM 7820 magnets are shipped with die cast housing, cover, armature(s) and WMS screw pack.
- Available in Aluminum and Dark Bronze finishes only.
- UL listed for smoke barrier or labeled fire doors.
SEM SERIES

SEM 7830 MAGNET
Die cast housing,
Surface wall mounted.

SEM FEATURES

- Tri-voltage design with 35 lbs. of holding force.
- Now available armature extensions from LCN (see page 11).
- SEM 7830 magnets are shipped with die cast housing, cover, armature and WMS screw pack.
- SEM 7830 available in Aluminum and Dark Bronze finishes only.
- Suitable for use in pocket door installations.
- UL listed for smoke barrier or labeled fire doors.

Total Projection = 4-1/8” (105 mm)

Dimensions apply for both SEM 7830
SEM 7840 MAGNET
Die cast housing, low profile recessed wall mount.
2” (51 mm) x 4” (102 mm) x 1-1/2” (38 mm).
NOTE: Outlet box not included.

SEM FEATURES
- Tri-voltage design with 35 lbs. of holding force.
- Now available armature extensions from LCN (see page 11).
- SEM 7840 magnets are shipped with die cast housing, cover, armature and WMS screw pack.
- SEM 7840 available in Aluminum and Dark Bronze finishes only.
- Suitable for use in pocket door installations.
- UL listed for smoke barrier or labeled fire doors.

Total Projection = 2-5/8” (67 mm)
Dimensions apply for both SEM 7840
SEM SERIES

SEM 7850
MAGNET
Die cast housing, standard profile recessed wall mount.
2” (51 mm) x 4” (102 mm) x 1-1/2” (38 mm)
NOTE: Outlet box not included.

SEM FEATURES
- Tri-voltage design with 35 lbs. of holding force.
- Now available armature extensions from LCN (see page 11).
- SEM 7850 available in standard powder coat finishes.
- SEM 7850 available in Aluminum and Dark Bronze finishes only.
- Suitable for use in pocket door installations.
- UL listed for smoke barrier or labeled fire doors.

Total Projection = 3-5/8” (92 mm)
Dimensions apply for both SEM 7850
ELECTRICAL DATA

Holding Force: 35 lbs. @ Nominal Input Voltage.
Maximum Current Draw: 0.020A @ 24VAC/DC, 120VAC
0.030A @ 12VDC

ELECTRICAL SCHEMATIC

Operation:
Electromagnets are typically used with fire alarm systems. Doors are held open in the non-alarm condition. When the fire alarm panel enters the alarm condition, power to the electromagnets is removed, the doors close under door closer control, and function as a manual door. When the fire alarm panel returns to the non-alarm condition, power is reapplied to the electromagnets and the doors can be held open again.
**SEM SERIES**

**MAGNETS**
- **FLOOR MAGNET, SEM7820-516**
  Standard magnet coil.
- **WALL MAGNET, SEM7830-516, SEM7840-516, SEM7850-516, SEM1960-516, SEM1970-516, SEM1980-516**
  Standard magnet coil.

**ARMATURES**
- **DOOR ARMATURE, SEM7820-825, SEM7830-825, SEM7840-825**
  Standard, die cast low profile armature.
- **DOOR ARMATURE, SEM7850-828**
  Standard, die cast armature.
- **DOOR ARMATURE, SEM1960-825, SEM1970-825**
  Standard, plastic low profile armature.
- **DOOR ARMATURE, SEM1980-828**
  Standard, plastic armature.

**COVER**
- **STANDARD COVER, SEM7830-72, SEM7840-72, SEM7850-72**
  Standard, die cast cover.
- **STANDARD COVER, SEM1960-72, SEM1970-72, SEM1980-72**
  Standard, plastic cover.

**BOX**
- **WALL BOX, SEM7830-268**
  Standard, die cast surface wall mount box.
- **WALL BOX, SEM1960-268**
  Standard, plastic surface wall mount box.
EXTENSIONS
COUPLER ASSEMBLY KIT, SEM7810-514
Coupler assembly is required for each door needing extension(s). Kit includes coupler link and ball pivot (alone serves as a 1-1/2” extension).

Extension, SEM7810-E050
Standard metal 1/2” extension.

Extension, SEM7810-E075
Standard metal 3/4” extension.

Extension, SEM7810-E100
Standard metal 1” extension.

Extension, SEM7810-E200
Standard metal 2” extension.

Extension, SEM7810-E400
Standard metal 4” extension.

EXTENSION KIT, SEM7810-517
Extension kit includes:
- 10.........SEM7810-E050
- 10.........SEM7810-E075
- 10.........SEM7810-E100
- 5.........SEM7810-E200
- 20..........SEM7810-514

NOTE: Using just the Coupler Assembly Kit (SEM7810-514) will create a 1-1/2” link. Extension Links are available in different lengths and can be combined together to achieve the desired length. Max. recommended length = 12”
SEM SERIES

HOW-TO-ORDER SEM 7800 SERIES MAGNETS

1. SELECT MAGNET SERIES
  - SEM7820
  - SEM7830
  - SEM7840
  - SEM7850

2. SPECIFY FINISH
  - Standard Powder Coat
    Aluminum, Dark Bronze.

HOW-TO-ORDER SEM 1900 SERIES MAGNETS

1. SELECT MAGNET SERIES
  - SEM1960
  - SEM1970
  - SEM1980

2. SPECIFY FINISH
  - Standard Finish
    Aluminum or Dark Bronze.

HOW-TO-ORDER SEM 7810 EXTENSIONS

1. SELECT EXTENSIONS
  - SEM7810-514 (qty.)
  - SEM7810-E050 (qty.)
  - SEM7810-E075 (qty.)
  - SEM7810-E100 (qty.)
  - SEM7810-E200 (qty.)
  - SEM7810-E400 (qty.)
  - SEM7810-517 (qty.)

ORDERING INFORMATION

SEM 7820
SEM 7830
SEM 7840
SEM 7850
SEM 1960
SEM 1970
SEM 1980