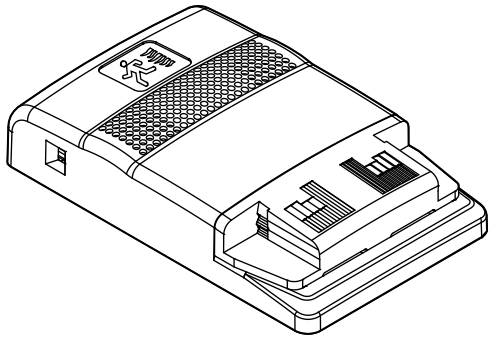
DC-M9415 Series Wall Mount Strobe Installation Sheet



Description

The DC-M9415 Series Wall Mount Strobe is a visible fire alarm notification appliance that is designed for mounting on indoor walls. See Table 1 for a list of model numbers.

Table 1: Models

Description	Model number
Strobe, white	DC-M9415W
Strobe, red	DC-M9415R

The strobe includes a field-configurable switch for selecting the desired candela output and a field-configurable jumper for the strobe signal output. The candela output setting is locked in place and remains visible after final installation.

This strobe features an enhanced synchronization circuit to comply with the latest requirements of UL 1971 *Signaling Devices for the Hearing Impaired*.

Synchronized operation requires that you connect the DC-M9415 Series Wall Mount Strobe to a NAC output set for Synch Mode, or to a separate DC-M9410 Signal Synchronization Module.

Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow 10 minutes for stored energy to discharge before installing or removing equipment.

Caution: Electrical supervision requires breaking the wire run at each terminal. Do not loop the signaling circuit field wires around the terminals.

To install the strobe:

1. Remove the cover by depressing both tabs on the top of the unit with a small screwdriver and twisting slightly.
2. Slide the candela switch to the desired candela output (15, 30, 75, or 110 cd) by aligning it with the indicator located beside the switch. See Figure 1.
3. Set the strobe signal if required. See Figure 2.
4. Connect the strobe terminals to the signal circuit field wiring. You must observe polarity for the unit to function properly. See Figure 3.
5. Mount the unit onto a compatible electrical box, making sure not to over-tighten the mounting screws.
6. Replace the cover by aligning at the bottom, then snapping in at the top.
7. Test the unit for proper operation.

Figure 1: Candela switch

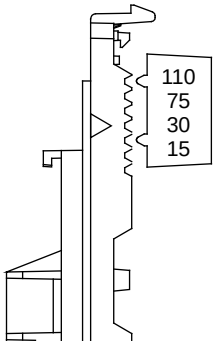
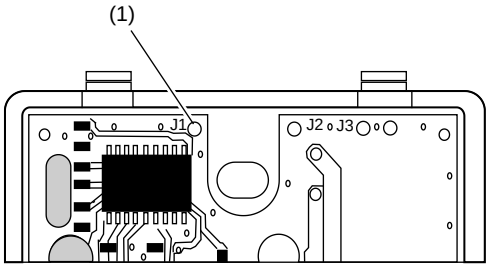


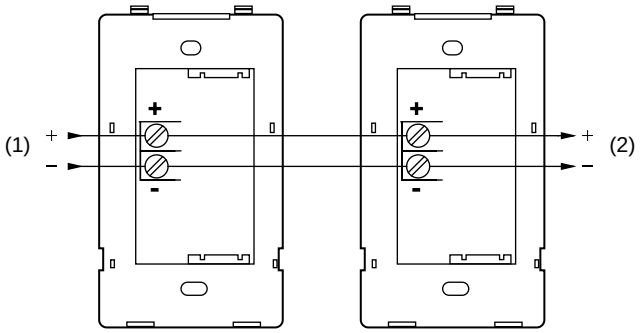
Figure 2: Strobe signal setting



(1) To change the strobe to temporal (private mode), cut from circle J1 to the edge of circuit board.

Note: If the strobe is set to temporal (private mode), this device is no longer UL 1971 listed, but is UL 1638 listed.

Figure 3: Wiring diagram



(1) From NAC output
(2) To next appliance, EOLR, or return to source

Note: Polarity is shown in the alarm condition.

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Maintenance

Caution: To maintain the required agency listings, do not change factory applied finishes.

This unit is not serviceable or repairable. Should the unit fail to operate, contact the supplier for replacement.

Perform a visual inspection and an operational test twice a year or as directed by the local authority having jurisdiction.

Specifications

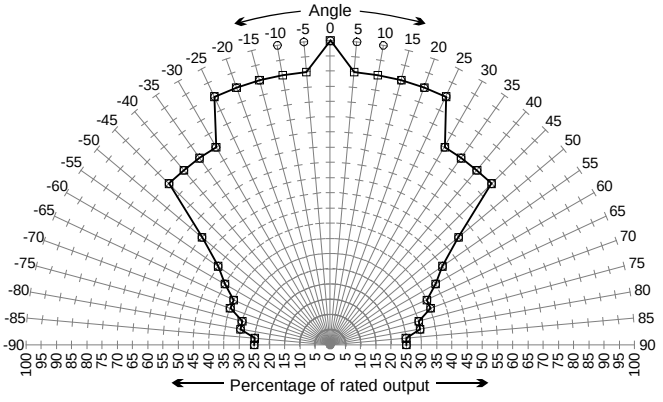
Operating voltage	24 VDC or 24 VFWR nominal
Strobe operating current	See Table 2
Light output	Selectable at 15, 30, 75, and 110 cd
Synchronization	Meets UL 1971 requirements. Maximum allowed resistance between any two devices is 20 Ω. Refer to specifications for the synchronization control module, this strobe, and the control panel to determine allowed wire resistance.
Strobe signal rate	1 flash per second (fps)
Wire size	12 to 18 AWG (0.75 to 2.50 mm²)
Compatible electrical boxes	Single-gang box, 2-1/2 in. (64 mm) deep
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

Table 2: Strobe operating current in RMS (A)

	15 cd	30 cd	75 cd	110 cd
16 Vdc	0.103	0.141	0.255	0.311
16 Vfwr	0.125	0.179	0.346	0.392

VDC = Volts direct current, regulated and filtered
VFWR = Volts full wave rectified

Figure 4: UL 1971 minimum light output (% of rating vs. angle)



Horizontal and vertical outputs reflect the same pattern.

Regulatory information

UL rating	Regulated 24 VDC and 24 VFWR
Environmental class	UL: Indoor, Dry
North American standards	UL 1638 and UL 1971

Contact information

For information or questions, please contact:

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