Indoor Wall-Mount LED Strobe

Description

The AUTOPULSE Indoor Wall-Mount LED Strobe is a wall mounted device that provides visible notifications. It has a mount plate and a capture hinge, making installation fast and efficient.

The appliance includes a pre-wire and pre-test capability, so installers can complete wiring and ground fault testing before the device is installed.

Features

- FIRE or AGENT lettering
- Low-profile, small footprint design
- Field-selectable candela settings: 15, 30, 75, 110, 135, and 185 cd
- Pre-wire and pre-test mounting plate and back box terminals

Approvals, listings, and standards

- NFPA 72 2016 (meets maximum light pulse duration of 20 ms)
- UL 1971, UL 1638, UL 464, ULC S525, ULC S526
- California State Fire Marshal (CSFM)
- Factory Mutual (FM)
- RoHS (Restriction of Hazardous Substances)
- FCC Part 15, ICES

Note: The converted values provided in this document are for nominal reference only and do not reflect an actual measurement.

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Technical specifications

Table 1: Specifications

Physical	
Material	Red textured UV stabilized, colored impregnated engineered plastic. Exceeds 94V-0 UL flammability rating.
Weight	0.35 lb (160 g)
Lens	Light emitting diode (LED) in a rugged clear Lexan lens
Dimensions (H x W x D)	4.79 in. x 2.76 in. x 1.18 in. (121.7 mm x 70.1 mm x 30.0 mm)
Operating temperature	Indoor use: 32 °F to 122 °F (0 °C to 50 °C) and maximum humidity of 93%
Mounting and wire connections	
Mounting (indoor only)	Mounting plate included, wall-mount
Wire connections	12 AWG to 18 AWG (2.5 mm^2 to 0.75 mm^2)
Power and general	
Operating voltage	24 VDC/VFWR: 16 VDC/VFWR to 33 VDC/VFWR
Strobe output rating	UL 1971, UL 1638, ULC S526: selectable 15, 30, 75, 110, 135, and 185 cd output
NAC (notification appliance circuit) characteristics	Maximum line resistance: 35 Ω

Notes:

- The strobe produces 1 flash per second over the regulated voltage range. Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second. ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- Do not use the strobe on coded systems in which the applied voltage is cycled on and off.
- To determine the maximum number of AUTOPULSE devices for each NAC, divide the maximum current rating of the fire alarm control panel (FACP) NAC by the total current rating of one AUTOPULSE device.
- The maximum number of strobes on a single NAC is 105.

One Stanton Street | Marinette, WI 54143-2542, USA | +1-715-735-7411 | www.ansul.com

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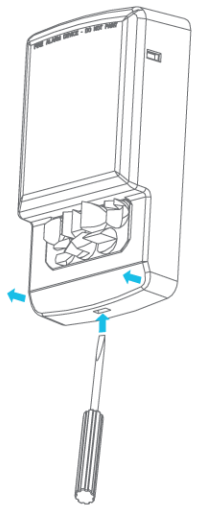
Removing the appliance cover

To remove the appliance cover, insert a 3/16 in. straight screwdriver into the bottom slot and complete the following steps:

1. Push in to release the snap.
2. Lift away from the wall surface to remove the cover.

Figure 1: Removing the cover



To put the cover back in place, complete the following steps:

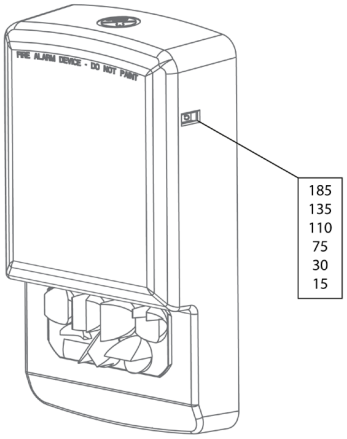
1. Position the cover over the appliance and engage the top snaps.
2. Pivot the cover and apply pressure on the bottom side above the screwdriver slot until you hear the cover click in place.

Verify that the cover grille is attached and verify the candela setting.

Candela setting

To select the candela output, adjust the selector switch to the required candela setting. To verify the candela setting, look into the small window on the top-right hand side of the product. The factory setting is 15 cd.

Figure 2: Candela window location and settings



NOTICE

The strobe appliance has only one mounting orientation. Make sure the LED lens points toward the floor as illustrated in Figure 2.

Current ratings

Table 2 shows the current draw (amps) for different candela settings at 24 V.

Table 2: Current draw

Current draw (amps) at 24 V						
Current	**15 cd**	**30 cd**	**75 cd**	**110 cd**	**135 cd**	**185 cd**
DC	0.022	0.030	0.060	0.086	0.125	0.185
FWR	0.036	0.050	0.092	0.142	0.196	0.274

Wiring and mounting plate

The in-out wiring terminals accept two 12 AWG to 18 AWG (2.5 mm^2 to 0.75 mm^2) wires at each screw terminal.

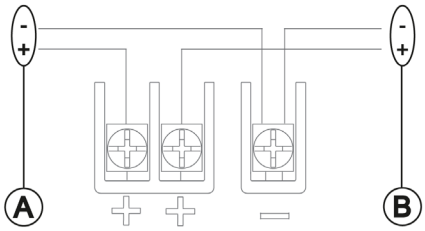
Make wire connections by stripping about 3/8 in. (1 cm) of insulation from the end of the wire. Then slide the bare end of the wire into the appropriate screw terminal and tighten the clamping plate screw.

⚠ CAUTION

Do not overtighten the mounting plate screws, this can cause the mounting plate to flex.

Figure 3 shows the wiring terminals.

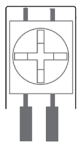
Figure 3: Strobe NAC wiring



Callout	Description
A	Input from prior device, FACP, or synchronization module
B	Output to next signal or end-of-line resistor (EOLR)

Figure 4 shows how to break all in-out wire runs on supervised circuits to assure integrity of circuit supervision. The polarity shown in the wiring diagrams is for appliance operation. The FACP reverses the polarity during supervision.

Figure 4: In-out wire runs



NOTICE

A maximum of four 12 AWG to 18 AWG (2.5 mm^2 to 0.75 mm^2) field wires (conductors) can enter the back box used for mounting. Exceeding this limit can result in insufficient space for the field wires and stresses from the wires can damage the product. Check that the installed product has sufficient clearance and wiring room before you install the back boxes and conduit. This is especially important if you use sheathed multiconductor cable or 3/4 in. conduit fittings.

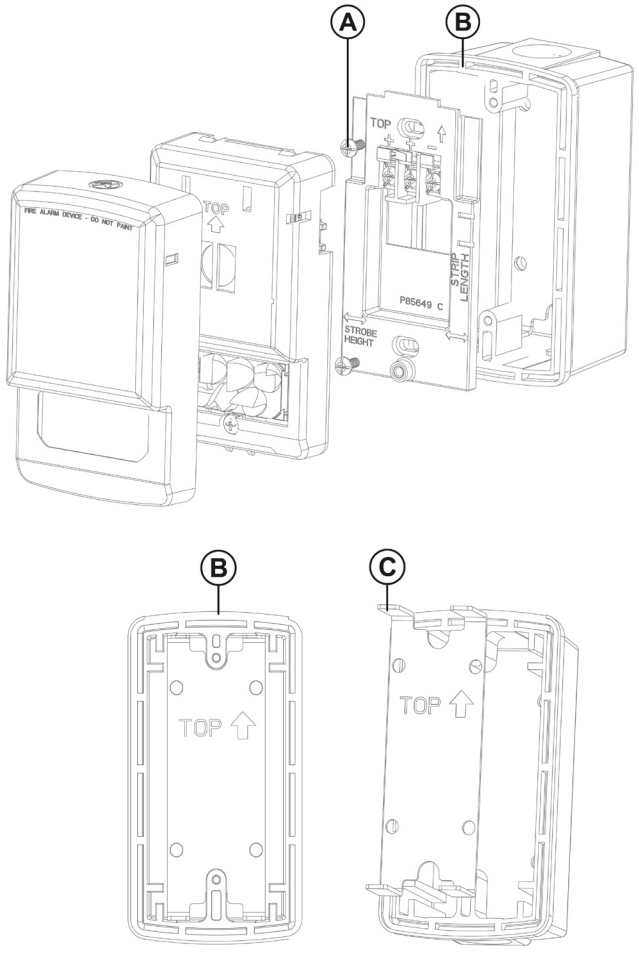
Surface mounting on a wall

Select conduit entrances to the back box with sufficient wiring clearance for the installed product. Do not pass additional wires that are not used by the signaling appliance through the back box. Such additional wires could result in insufficient wiring space for the signaling appliance.

NOTICE

- Do not fully back out the terminal screws.
- Do not overtighten screws or terminals.
- Excessive torque can affect operation.
- When using power tools, ensure the torque is set to the lowest setting available.

Figure 5: Surface mounting (top) and surface back box (bottom)



Callout	Description	Quantity
A	#6 hi-lo screw	2
B	Surface back box	1
C	Conduit metal strap	1

Note: The maximum number of conductors is four.

To surface mount the appliance on a wall, complete the following steps:

1. Install the mounting plate on the back box with TOP facing upwards using the two provided #6 hi-lo screws.
2. Connect the field wires to the terminals (see *Wiring and mounting plate*). Position the wires in the back box with care and use correct techniques so that they take minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing. When terminating field wires, do not use more lead length than required. Excess lead length can result in insufficient wiring space for the signaling appliance.
3. Conduct pre-tests. AUTOPULSE provide a shunt between adjacent positive (+) terminals in the mounting plate to facilitate testing before the device is attached.

   Note: The shunt opens permanently when the device is installed.
4. Verify that the appliance settings are correct for your application (see *Candela setting*). The factory setting is 15 cd.
5. Place the appliance over the mounting plate. Engage the top hook on the mounting plate, then secure with a screw at the **bottom**. Use care to prevent damage when driving the screw.
6. Align the cover to the appliance with the strobe opening over the LED lens and click in place.

Note: Final acceptance is subject to the Authority Having Jurisdiction (AHJ).

⚠ WARNING

When you install strobes in open offices or other areas containing partitions or other viewing obstructions, give special attention to the location of the strobes. Ensure that their operating effect can be seen by all intended viewers. Make sure that the intensity, number, and type of strobes is sufficient to alert each intended viewer by adequate illumination, regardless of the viewer's orientation.

⚠ WARNING

Under certain circumstances, there is a small possibility that the use of multiple strobes within a person's field of view may induce a photo-sensitive response. This can affect persons with epilepsy. Strobe reflections in a glass or mirrored surface can also induce such a response. To minimize this possible hazard, make sure that the strobes installed do not present a composite flash rate that exceeds 5 Hz at the operating voltage of the strobes. Ensure that the intensity and composite flash rate of installed strobes in the field of view complies with applicable laws, standards, regulations, codes, and guidelines.

⚠ CAUTION

Do not alter the factory finish or paint the product.

Ordering information

Use the details in Table 3 when ordering products.

Table 3: Part details

Part No.	Description	Color
A16382VBAN	Indoor strobe with LED and FIRE lettering, wall-mount	Red
433352	Indoor strobe with LED and AGENT lettering, wall-mount	Red
A16382VBAF	Indoor LED strobe back box, wall surface mount	Red

Dimensions

Figure 6 shows the product dimensions.

Figure 6: Indoor LED strobe dimensions, in. (mm) (Part No. A16382VBAN and Part No. 433352)

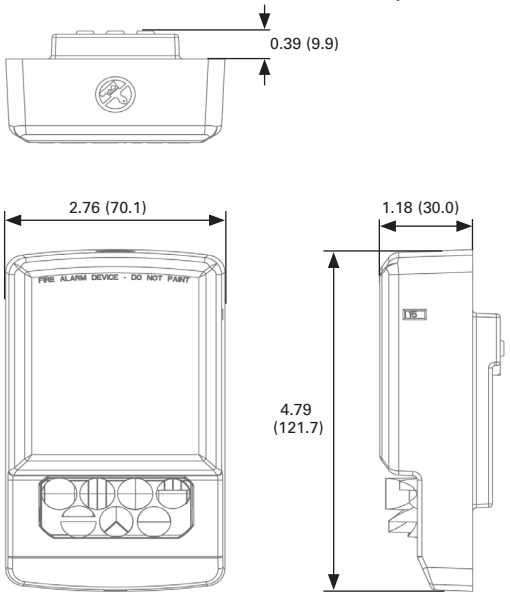


Figure 7 shows the indoor LED strobe back box dimensions.

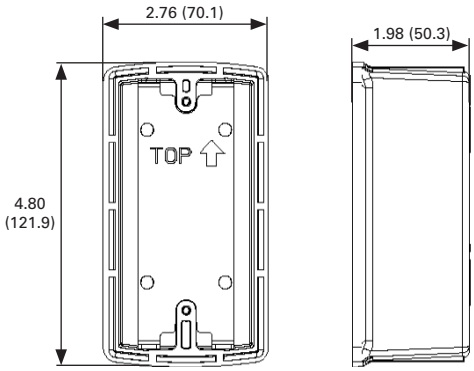



Figure 7: Indoor LED strobe back box dimensions, in. (mm) (Part No. A16382VBAF)