NOTIFIER®

FIRE

↓ PUSH IN ↓
PULL DOWN

NOTIFIER®

NBG-12-Face2.cdr

NBG-12LX Addressable Pull Station

Document 51093   Revision A2   ECN: 01-293   09/14/01

Description

The NBG-12LX Addressable pull station is a non-coded, dual-action manual pull station with a key-lock reset feature. It provides NOTIFIER intelligent control panels with one addressable alarm initiating input. The addressable module is housed inside the pull station. The NBG-12LX is compatible with all Notifier intelligent panels and will automatically operate in either FlashScan™ or CLIP (Classic Loop Interface Protocol) mode. FlashScan™ is a patented (U.S. Pat. No. 5,539,389) High Speed Communications Protocol. Refer to the FACP Installation Manual to determine if FlashScan™ protocol is supported. FlashScan™ or CLIP operating mode must be selected in the FACP. (This selection is not available or required in FACPs that do not support FlashScan™, therefore CLIP mode is enabled by default.) No selection is required in the Pull Station. The NBG-12LX meets the ADA requirement for a 5-lb. maximum pull force to activate the pull station. Operating instructions are molded into the pull station handle along with Braille text. Molded Terminal numbers are also present.

Installation

The NBG-12LX Addressable pull station can be surface mounted to a NOTIFIER SB-10 surface backbox or semi-flush mounted on a standard single-gang, double-gang or 4" (10.16 cm) square electrical box. The optional BG-TR trim ring can be used if the NBG-12LX is to be semi-flush mounted.
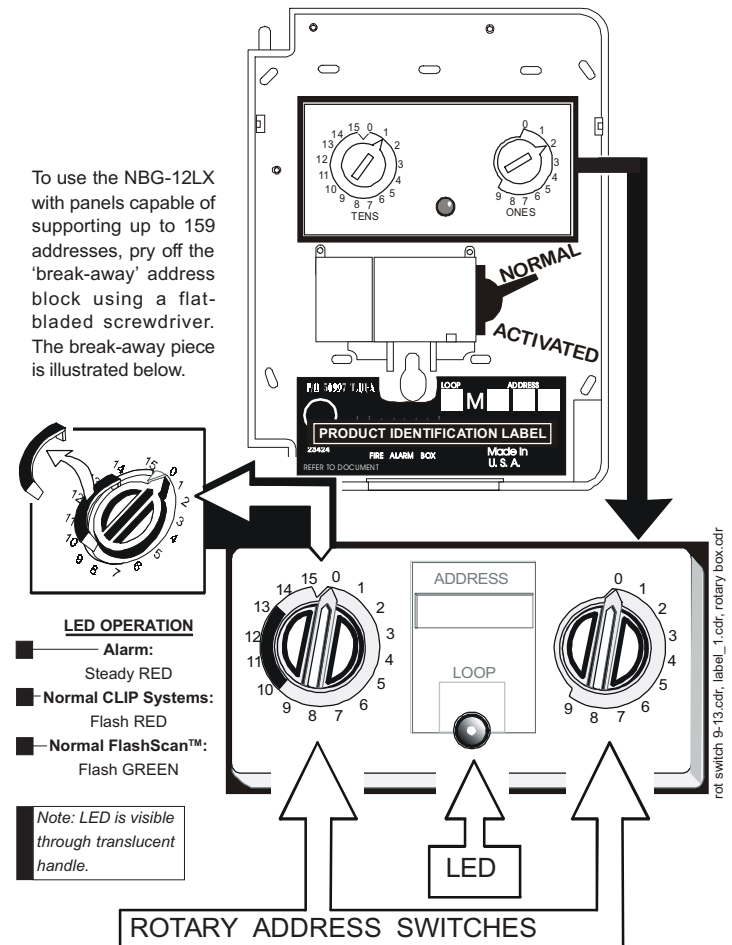
Ratings

Normal Operating Voltage: 24 VDC.
Average Operating Current (LED Flash): 300 µA.
Temperature Range: 32º F - 120º F (0º C - 49º C).
Relative Humidity Range: 10% - 93% non-condensing.

Software Note for AM2020/AFP1010 Programming

The NBG-12LX is an Alarm Initiating Module of software type 'mpul'. If you have an older system that does not support the 'mpul' software type, the software type 'mon' may be used.
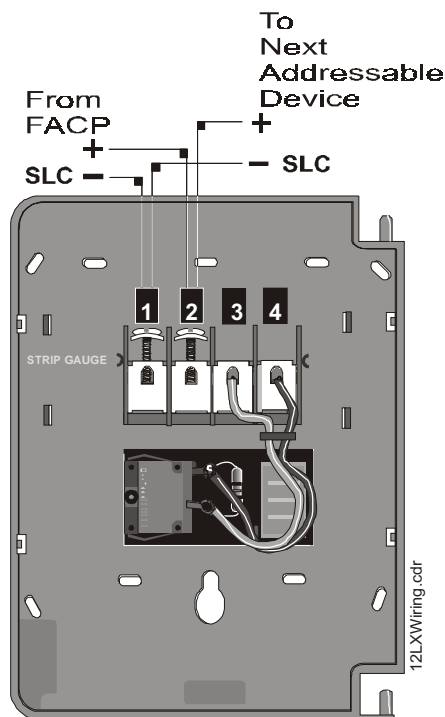
Setting the NBG-12LX Address

The NBG-12LX Addressable pull station is factory preset with address '00.' Set the address for the pull station by turning the rotary address switches on the addressable module mounted inside the pull station. Only one device per address is allowed. Multiple modules may not be set to the same address on the Signaling Line Circuit. Once the address is set, record it in the space provided on the product ID label located inside the pull station.

To use the NBG-12LX with panels capable of supporting up to 159 addresses, pry off the 'break-away' address block using a flat-bladed screwdriver. The break-away piece is illustrated below.

TENS   ONES

NORMAL

ACTIVATED

LOOP   ADDRESS
M

PRODUCT IDENTIFICATION LABEL

FIRE ALARM BOX   Made in U.S.A.
REFER TO DOCUMENT

rot switch 9-13.cdr, label_1.cdr, rotary box.cdr

LED OPERATION
▬ **Alarm:**
   Steady RED
▬ **Normal CLIP Systems:**
   Flash RED
▬ **Normal FlashScan™:**
   Flash GREEN

Note: LED is visible through translucent handle.

ADDRESS

LOOP

LED

ROTARY ADDRESS SWITCHES

If, during mounting of the pull station, the door becomes detached, complete the following steps to reattach the door to the backplate. The door cannot be connected to the pull station if the unit is mounted to the backbox.

1) Position the door and backplate side by side in the full open position. (i.e. 180-degrees with respect to each other.)
2) With the backplate position fixed, move the door behind the backplate, as shown in the illustration, part A.
3) Align the hinge posts and holes by bringing the door up to meet the backplate, paying particular attention to the 'keying' that occurs when the door's post hole is aligned to the backplate's hinge post. Refer to the illustration, part B.
4) With the two pieces aligned and 'keyed' together, slide the holes down onto the posts. Refer to the illustration, part C.
5) Holding the backplate, close the door slightly to lock the door and backplate together.

Wiring

1) If semi-flush mounting, proceed to step 4.
2) Mount the backbox *before* wiring to the pull station.
3) Before mounting the station, pull all necessary wiring through the backbox and optional trim ring.
4) Remove the correct amount of wire insulation. The pull station backplate is molded with a strip gauge to measure the amount of insulation to be removed.
5) Connect the wiring from the addressable fire alarm control panel's Signaling Line Circuit (SLC) to Terminals 1(-) and 2(+) on the NBG-12LX addressable pull station. SLC polarity is critical for this connection.
6) Connect the wiring going to the next device on the SLC to Terminals 1 and 2, again being certain to observe polarity.
7) If using a single-gang or SB-10 box for mounting, open the pull station door; align the mounting holes of the pull station backplate to the backbox and screw into place. Tighten both top and bottom screws.
8) Set the address as described in 'Setting the NBG-12LX Address' and write the address in the space provided on the label.
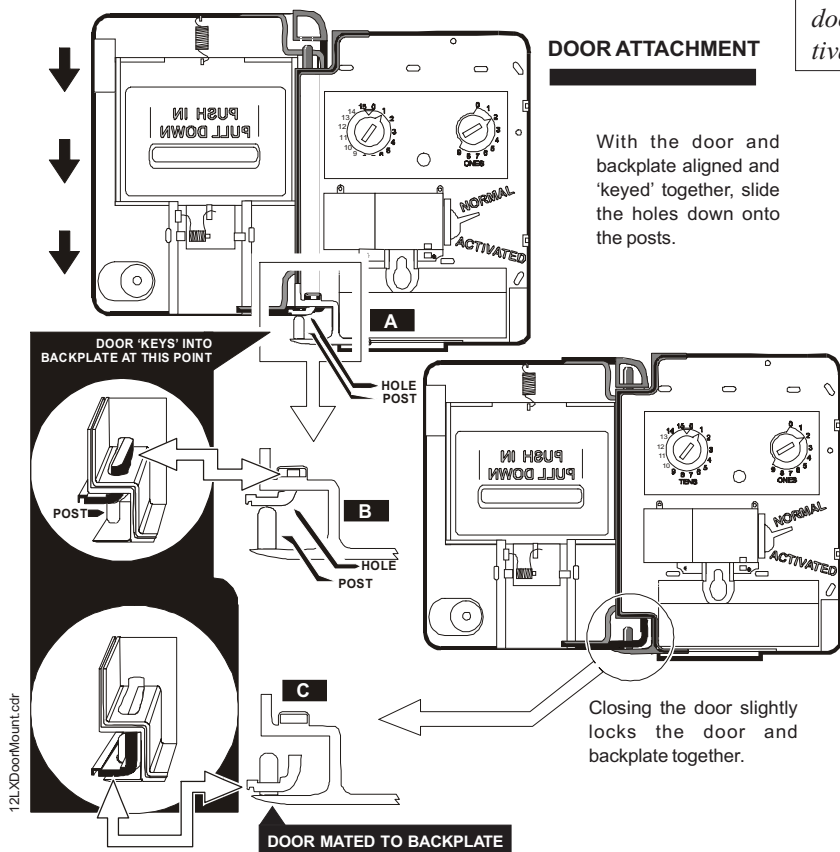9) Close and lock the pull station door.

Operation

Push in and pull down the handle where indicated to activate the station. The NBG-12LX manual fire alarm pull station includes one SPST (Single Pole, Single Throw) N/O (normally-open) switch and the addressable module located inside the station. Pushing in and pulling down the dual action handle causes the N/O alarm switch to close. The word 'ACTIVATED' is displayed on the top of the handle when the pull station handle is pushed in and pulled down. The activated handle can not be reset without employing the key-lock reset. To reset the NBG-12LX pull station: 1) Insert the key and turn counterclockwise, 2) Open the door until the handle moves back into the 'NORMAL' position, 3) Close the door and lock it. Closing the door automatically resets the switch to the 'NORMAL' position.

Note - Opening the pull station door will not activate or deactivate the alarm switch.

ACTIVATED NBG-12LX PULL STATION

DOOR ATTACHMENT

With the door and backplate aligned and 'keyed' together, slide the holes down onto the posts.

DOOR 'KEYS' INTO BACKPLATE AT THIS POINT

POST

A

HOLE POST

B

HOLE POST

C

Closing the door slightly locks the door and backplate together.

DOOR MATED TO BACKPLATE

CAUTION!

Install the Notifier NBG-12LX manual pull station in accordance with these instructions, applicable NFPA standards, national and local Fire and Electrical codes and the requirements of the AHJ (Authority Having Jurisdiction). Regular testing of the devices should be conducted in accordance with the appropriate NFPA standards. Failure to follow these directions may result in failure of the device to report an alarm condition. Notifier is not responsible for devices that have been improperly installed, tested or maintained.

For ADA compliance, if the clear floor space only allows forward approach to an object, the maximum forward reach height allowed is 48 in. (1,220 mm). If the clear floor space allows parallel approach by a person in a wheelchair, the maximum side reach height allowed is 54 in. (1,370 mm).

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