

INSTALLATION AND MOUNTING INSTRUCTIONS

BULLETIN 800T and 800H PILOT DEVICES

Bulletin 800T Devices are Rated NEMA Type 4 and 13.
Bulletin 800H Devices are Rated NEMA Type 4, 4X, and 13.

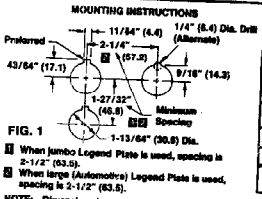
Install on a Flat, Smooth Surface of an Enclosure
 Devices maintain their NEMA Type Ratings (4 and/or 4x and/or 13) only when properly mounted in an enclosure with the same rating(s).

WARNING: To prevent injury, this device must be disconnected from all power sources prior to initiating work.
CAUTION: When installing the device in a metal enclosure, maintain 1/2" (12.5) minimum clearance between exposed metal parts of contact block and enclosure.

- INSTALLATION** (see Figs. 1 and 2)
- Remove the following parts from the unit:
 Lens or cap, mounting ring, thrust washer, and legend plate or trim washer.
 - Determine the correct number of gaskets to be used per the table in Fig. 1.
 - Place the unit into the mounting hole from the rear of the panel.
 - Position legend plate or trim washer and then thrust washer, with thrust washer tang engaging legend plate or trim washer and panel notches.
 - Install mounting ring and tighten against thrust washer to the following torque:
 800T device with metal mounting ring: 50 to 60 lb.-in. (5.5 to 6.5 N-m)
 800H device with plastic mounting ring: 25 to 30 lb.-in. (2.5 to 3.4 N-m)

CAUTION: Lens or Cap must be tight against bushing to provide a tight seal.
CAUTION: For those illuminated and pilot light devices rated for Class 1 Division 2 Hazardous Locations, the lens must be assembled to the device. Those devices rated Class 1 Division 2 are marked specifically as such on the device.

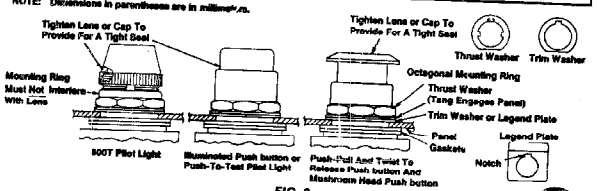
- Available Mounting Accessories:**
- Wrench for Octagonal Mounting Ring - Catalog No. 800T-10245
 - Wrench for 800H Pilot Light Mounting Ring - Catalog No. 800H-1010
 - Device Bonding Kit for 800T devices to meet the bonding requirements of CSA Standard C22.2 No. 0.4 - Catalog No. 800T-N300



GASKETS REQUIRED FOR VARIOUS PANEL THICKNESSES

Panel Thickness	Products with octagonal mounting rings	Pilot lights with knurled mounting rings
18 Gage 1/16" (1.6)	3	4
12 Gage 7/64" (2.8)	2	3
10 Gage 3/64" (1.6)	1	2
3/16" (4.8)	1	1
1/4" (6.4)	3	4

Number of 1/4" (6.4) Gaskets Shipped with the product



- LAMP REPLACEMENT: (Bayonet Base)**
- Remove Lens
 - To remove lamp: Push lamp inward, turn counterclockwise, and remove
 - To insert new lamp: insert in socket, push inward and turn clockwise (see Figure 3)
 - Reinstall Lens
- FIG. 3**
- Bayonet Base Lamp
 Incandescent or Neon
 LED

40061-052-01 (D)
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5	3123-92	DIMENSIONS APPLY BEFORE SURFACE TREATMENT <small>(DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED</small>		DR. K. GAJEWSKI	DATE 9-14-88
		xx: ±		CHKD. <i>M. J. Gajewski</i>	DATE 9/14/88
		xxx: ±		APPD. <i>[Signature]</i>	DATE 9/15/88
		ANGLES: ±		DWG. SIZE B	SHEET 1 OF 2
40061				40061-052	

AVAILABLE ACCESSORIES FOR 800T AND 800H ILLUMINATED DEVICES

- Dual Input Module Kits: 800T-N290 (120 Vac Full Voltage) Power module and lamp
800T-N261 (24 Vac Full Voltage) Power module and lamp
800T-N296 (120 Vac Transformer Type) Relay module.
- CAUTION: 800T-N296 is not rated for Class 1 Division 2 Hazardous Location.
- Flashing Lamp IS VI: 800T-N212 Available for any illuminated device which uses the ANSI No. 755 or No. 1000 lamp.
- Lamp Installer: 800T-N82 Useful for installation or replacement of incandescent lamps
- LED Lamps and Power Modules for extended lamp life:
(Consult A-44 Catalog for ordering information)

CONTACT BLOCKS FOR 800T AND 800H PUSHBUTTONS

CAUTION: Only Sealed Switch and Logic Reed Blocks may be used on D-Devices rated for Class 1, Division 2 Hazardous Locations.

The contact blocks listed below may be mounted in various combinations on an operator.
Two Term High Maximum for momentary instructions see contact block instruction sheet.

- Illuminated Pushbutton Operators Accept One (1) or Two (2) Contact blocks
- Non-Illuminated Pushbutton Operators Accept One (1) or Four (4) Contact blocks

Standard Block Cat. No. 800T-	Mini-Block Cat. No. 800T-	Sealed Switch Block Cat. No. 800T-	Logic Reed Block Cat. No. 800T-	Number of Contacts
XA	—	XAP	XAR	1 N.O.-1 N.C.
XA1	—	—	—	1 N.O.-1 N.C. (Late Break)
XA2	—	—	XA2R	2 N.O.
XA4	—	—	XA4R	2 N.C.
XA7	—	—	—	1 N.C.-1 N.C. (Late Break)
XD1	XD5	XD1P	XD1R	1 N.O.
XD2	XD6	XD2P	XD2R	1 N.C.
XD3	—	—	—	1 N.O. (Early Make)
XD4	—	—	—	1 N.C. (Late Break)

Series C or later Series B or later Series E or later Series A or later

- N.O. = Normally Open N.C. = Normally Closed
- 800T-XA2 contact blocks must be used only on the second level if stacked.
- Mini-blocks may be used on the second level only.
- Sealed Switch blocks are not stackable and may be used one tier high maximum.

FIG. 4

CONTACT TARGET TABLE

To determine the contact targets of Allen-Bradley 800T and 800H Momentary Pushbuttons, 2 and 3 position Push-Pull Pushbuttons, and 2 position Twist-Release Pushbuttons, proceed as follows:
1. Identify the CONTACT BLOCK used by looking at the contact block cover plate and finding a Catalog No. such as 800T-XA.
2. Identify the CIRCUIT for which the contact target is desired by looking at an at the contact block cover plate for a wiring symbol such as "A", "B", "A1", etc.
3. Refer to Fig. 5 and find the contact block and wiring symbol.
Read across the top to find the Lens or Cap position (IN, CENTER, or OUT)
The contact target is at the intersection of the contact block row and position column.

2 Circuit Contact Block Cat. No. 800T-	Single Circuit Contact Block Cat. No. 800T-	Normal Circuit Operation	Wiring Symbol	OUT Position	CENTER Position	IN Position
XA, XAR, XAP	XD2, XD6 XD2R, XD2P	NC	B	X	O	O
	XD1, XD5 XD1R, XD1P	NO	A	O	O	X
XA1	XD4	NCLB	BZ1	X	X	O
	XD1, XD5 XD1R, XD1P	NO	A2	O	O	X
XA2, XA2R	XD1, XD5 XD1R, XD1P	NO	A1	O	O	X
	XD1, XD5 XD1R, XD1P	NO	A2	O	O	X
XA4, XA4R	XD2, XD6 XD2R, XD2P	NC	B1	X	O	O
	XD2, XD6 XD2R, XD2P	NC	B2	X	O	O
XA7	XD4	NCLB	BZ1	X	X	O
	XD2, XD6 XD2R, XD2P	NC	B2	X	O	O
—	XD3	NOEM	AZ	O	X	X
—	XD4	NCLB	BZ	X	X	O


- 3 position Push-Pull Only
- Using the NCLB Contact function on 2 position Push-Pull and 2 position Twist-Release causes the following:
• When the button is pushed from the "OUT" to the "IN" position, the mechanical detent action of the operator occurs before the contacts change state
• When the button is pulled from the "IN" to the "OUT" position, the contacts change state before the mechanical detent action of the operator occurs.

Abbreviations and Symbols
NO = Normally Open NC = Normally Closed EM = Early Make LB = Late Break O = Open X = Closed

FIG. 5

-01	D	TWO SIDES PRINTED BODY STOCK WHITE BODY INK BLACK	6" W x 8" H (FLAT) 3" W x 2" H (FOLDED)
Part No.	Chg. Ltr.	Material	Finished Size

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