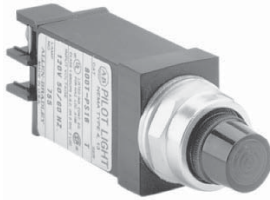
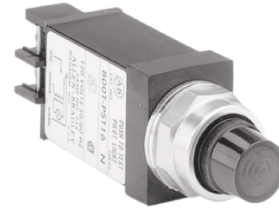


18 mm Small Pilot Lights Type 4/13, Class I, Division 2



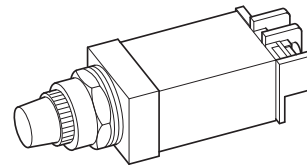
18 mm Pilot Light
Cat. No. 800T-PS16R



18 mm Push-to-Test Pilot Light
Cat. No. 800T-PST16R

Type	Lamp	Voltage	Color	Pilot Light	Push-To-Test
				Cat. No.	Cat. No.
Transformer	Incandescent	120V AC 50/60 Hz	Red	800T-PS16R	800T-PST16R
	LED			800T-PSH16R	800T-PSTH16R
Dual Input Diode	Incandescent	120V AC		800T-PSD16R	—
		24V AC/DC		800T-PSD24R	—
Dual Input Transformer	Incandescent	120V AC/DC 50/60 Hz		800T-PSDT16R	—
Full Voltage	Incandescent	24V AC/DC		800T-QS24R	800T-QST24R
	LED	24V AC/DC		800T-QSH24R	800T-QSTH24R
		120V AC		800T-QSH10R	800T-QSTH10R
	Neon	120V AC/DC	Amber	800T-RS10A	800T-RST10A

800T – PS D c 16 R
 a b c d e



a

Power Module Type	
Code	Description
PS	Transformer (or dual input)
QS	Full voltage
RS	Neon*

b

Lamp Test Options	
Code	Description
Blank	No test option
D	Dual input diode
DT	Dual input transformer relay ➤
T	Push-to-test ➤

- * Neon is only available in amber or clear.
‡ LEDs available in red, green, amber, blue, and white. LED color matches lens color, except clear lens supplied with white LED and white lens supplied with amber LED. All LEDs except 120V have an internal shunt resistor for use with solid-state outputs.
♣ Dual input diode only.
➤ Class 1, Division 2 rating not available. Push-to-test rated for Type 13 only.

c

Illumination Options	
Transformer/Full Voltage/Dual Input	
Code	Description
Blank	Incandescent
H	LED‡
Neon	
Blank	No options

d

Voltage	
Transformer	
Code	Description
16	120V AC 50/60 Hz
26	240V AC 50/60 Hz
Full Voltage Incandescent	
12	12V AC/DC
24	24V AC/DC
Full Voltage LED	
10	120V AC
13	130V AC/DC
24	24V AC/DC
Neon	
10	120V AC/DC
20	240V AC/DC
Dual Input	
16	120V AC 50/60 Hz
24	24V AC/DC♣

e

Lens Color	
Plastic	
Code	Description
Blank	No lens
A	Amber
B	Blue
C	Clear
G	Green
R	Red
W	White



Bulletin 800T/800H 30.5 mm Push Buttons

- 30.5 mm mounting hole
- Type 4/13 watertight/oiltight (Bul. 800T)
- Type 4/4X/13 corrosion-resistant/watertight/oiltight (Bul. 800H)
- Heavy industrial stations and operators

Description

The Allen-Bradley Bulletin 800T and 800H 30.5 mm push button product lines are in a class by themselves. They are designed and constructed to perform in the most demanding industrial environments. In terms of sealing and switching performance, you will not find a more dependable push button offering. Allen-Bradley delivers more styles and options of operator types and contact blocks, offering flexibility to meet the most demanding specifications in the world's toughest industrial environments.

Design innovation is key to the performance advantage provided in the Bulletin 800T and 800H offerings. New in this catalog are the **Trigger Action E-Stop** operators, the new standard bearer in a tamper-resistant design. Also new is the **Universal LED Illumination** option that accepts a wide 12...130V AC/DC voltage input. This is compatible with all illuminated operator types, allows retrofitting in existing installations, and incorporates super bright LED technology.

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See below.

Standards Compliance

UL 508

CCC

Certifications

UL Listed
(File No. E14840, E10314
Guide No. NKCR, NOIV)

CSA Certified
(File No. LR1234, LR11924)

CSA C22.2, No. 14

EN/IEC: 60947-5-1

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Specifications*

Electrical Ratings		
Contact ratings	Refer to the contact ratings tables on page 10-4.	
Dielectric strength	2200V for one minute, 1300V for one minute (Logic Reed)	
Electrical design life cycles	1 000 000 at max. rated load, 200 000 at max. rated load (Logic Reed)	
Mechanical Ratings		
Vibration	10...2000 Hz, 1.52 mm displacement (peak-to-peak) max./ 10 G max. (except Logic Reed)	
Shock	1/2 cycle sine wave for 11 ms ≥ 25 G (contact fragility) and no damage at 100 G	
Degree of protection	Type 1/4/12/13 (800T); Type 1/4/4X/12/13 (800H); EN/IEC 60529 IP66/65	
Mechanical design life cycles		
Push buttons	(Momentary, non-illuminated)	10 000 000 min.
	(Momentary, illuminated)	250 000 min.
	(Push-pull/twist-to-release)	250 000 min.
Selector switches	(Non-illuminated)	1 000 000 min.
	(Illuminated, key-operated)	200 000 min.
Potentiometers	25 000 min.	
All other devices	200 000 min.	
Contact operation	Shallow, mini, and low-voltage contact blocks: Slow, double make and break Logic Reed and sealed switch contact blocks: Single break magnetic	
Wire gauge/Terminal screw torque	#18...14 AWG (#18...10 Max Duty) / 6...8 lb•in	
Typical operating forces		
Operators without contact blocks	Flush, extended button, standard mushroom, jumbo plastic mushroom: 2 lbs max. Jumbo and extended aluminum mushroom head: 3.95 lbs max. Maintained selector switch: 3.6 in•lb max.	
Spring return selector switches	3.6 in•lb to stop, 0.2 in•lb to return	
Illuminated push buttons and push-to-test pilot lights	5 lb max.	
2-position push-pull	8.0 lb max. push or pull	
3-position push-pull	8 lb max. push to in position or pull to center position (15 lb max. pull to out position)	
Twist-to-release or push-pull	9 lbs max. push or pull 30 in•oz max. twist, 6 in•oz minimum return	
Potentiometer	Rotational torque 3...12 in•oz; stopping torque 12 in•lb (minimum)	
Contact blocks	Standard	1 lb
	Logic Reed	1 lb max.
	Sealed switch	3 lb max. at 0.205 in. plunger travel
	Stackable sealed switch	1 lb max.
	MaxDuty	1.4 lb max.
	PenTUFF	1.4 lb max.
	Self Monitoring	1.6 lb
Environment		
Temperature range	Operating	-40...+131 °F (-40...+55 °C)
	Storage	-40...+185 °F (-40...+85 °C)
Note: Operating temperatures below freezing are based on the absence of moisture and liquids. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for use in lower temperature applications.		
Humidity	50...95% RH from 77...140 °F (25...60 °C) per Procedure IV of MIL-STD-810C, Method 507.1 cycling test	

* Performance Data — See Important- 3.

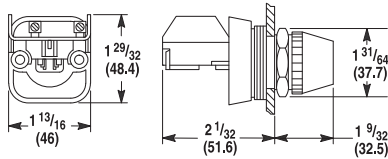
Bulletin 800T/H

30.5 mm Push Buttons

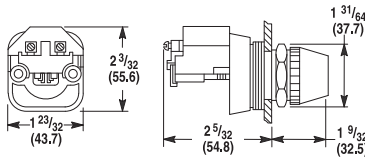
Approximate Dimensions

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

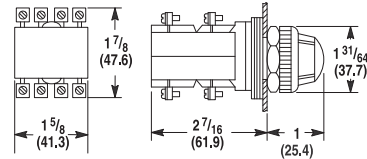
Pilot Light and Illuminated Devices (Bul. 800T Only)



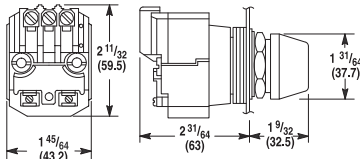
Full Voltage, Neon and
Dual Input Pilot Light
Shipping Wt. 5 oz (0.14 kg)



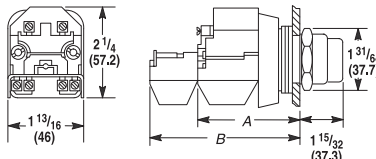
Transformer Type Pilot Light
Shipping Wt. 8 oz (0.22 kg)



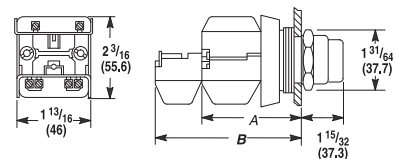
Cluster Pilot Light
Shipping Wt. 12 oz (0.34 kg)



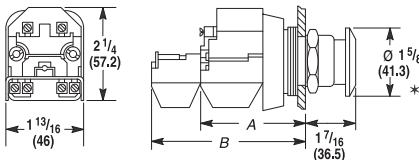
Dual Input Transformer
Type Pilot Light



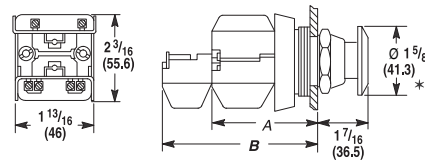
Transformer Type
(Push-to-Test Pilot Light and
Illuminated Push Button)



Full Voltage, Neon and Dual Input Type
(Push-to-Test Pilot Light and
Illuminated Push Button)



Push-Pull and Twist or Pull Release Units
(Transformer Type Illuminated)



Push-Pull and Twist or Pull Release Units
(Full Voltage, Neon and Dual Input
Illuminated and All Non-Illuminated)

* Jumbo mushroom versions are 2-1/4 in. (57.2 mm) diameter.

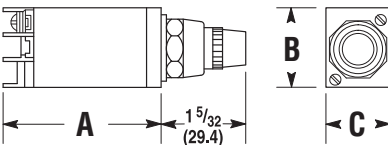
Push-to-Test Pilot Lights							Non-Illuminated Push-Pull Buttons					
Illuminated Push Buttons and Illuminated Push-Pull Buttons							Non-Illuminated Push-Pull Buttons					
Cat. No. Suffix❖	Description	Transformer Type		Full Voltage or Neon Type		Cat. No. Suffix	Description	Transformer Type				
		Dim.	Ship. Wt.	Dim.	Ship. Wt.			Dim.	Ship. Wt.			
D4	Transformer or Terminal Module and One Shallow Contact Block	A	2-5/32 (54.8)†	9 oz. (0.25 kg)	A	2-1/32 (51.6)	7 oz. (0.25 kg)	D4	One Shallow Contact Block	A	2-1/32 (51.6)	5 oz. (0.14 kg)
A1 and A7	Transformer or Terminal Module and One Shallow Block and One Mini Contact Block	B	2-7/8 (73)	10 oz. (0.28 kg)	B	2-7/8 (73)	8 oz. (0.22 kg)	A4 A5 A7	Two Shallow Contact Blocks	A	2-1/32 (51.6)	6 oz. (0.17 kg)
AP D1P D2P	Transformer or Terminal Module and One Sealed Switch Contact Block	A	3-1/32 (77)	10 oz. (0.28 kg)	A	2-29/32 (73.8)	8 oz. (0.22 kg)	B6	Two Shallow Blocks and Two Mini Contact Blocks	B	2-7/8 (73)	8 oz. (0.22 kg)

* Applies to illuminated push-pull push buttons only.

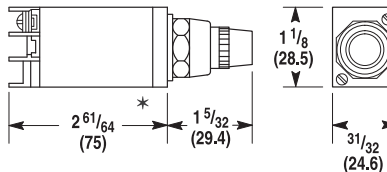
† Dual input type pilot light dimension is 2-13/32 in. (61.1 mm).

10

18 mm Small Pilot Lights



Small Pilot Light Including Push-To-Test
Shipping Weight 3 oz (0.08 kg)



Small Pilot Light Dual Input (Diode)
Shipping Weight 3 oz (0.08 kg)

Device	A	B	C
800T-PS, -PSD, -PST, -QS, -QST, and -RST	2-1/4 (57.2)	1-1/16 (27)	27/32 (21.4)
800T-PSDT	2-61/64 (75)	1-15/64 (31.4)	31/32 (24.6)

* Transfer dual input pilot light dimension is 2-31/32 in. (75.4 mm).