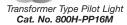
Pilot Light Units







Push-to-Test Pilot Light Cat. No. 800H-PPT16M



Pigtail Pilot Light
Cat. No. 800H-LP24M

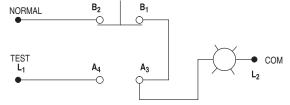
				Pilot Light	Push-to-Test	Pigtail
Туре	Lamp Type	Supply Voltage	Lens Color∗	Cat. No.*	Cat. No.**	Cat. No. §
	Operato	800H-QPN00	800H-QPB00XX	_		
	Incandescent		Multi-color kit	800H-QP24M	800H-QPT24M	800H-LP24M
	incandescent	120V AC/DC	Widiti-Color Kit	800H-QP10M	800H-QPT10M	800H-LP10M
Full voltage	No lamp	0250V AC/DC	No lens	800H-QPN25	800H-QPTN25	800H-LPN25
	LED	24V AC/DC	Multi-color kit	_	_	800H-LPH24M
	LED	120V AC	Widiti-Color Kit	_	_	800H-LPH10M
Universal	LED	12130V AC/DC	Multi-color kit	800H-QPH2M	800H-QPTH2M	_
Transformer	Incandescent	120V AC, 50/60 Hz	Multi-color kit	800H-PP16M	800H-PPT16M	_
	LED	120V AO, 50/60 HZ	IVIUILI-COIOF KIL	800H-PPH16M	800H-PPTH16M	_

- * Units ship with multi-color insert packet including amber, blue, green, red, and white.
- \$ For long barrel versions, add an L to the cat. no. Example: Cat. No. 800HL-QPH2M
- ‡ Includes one standard Cat. No. 800T-XA (1 N.O./1 N.C.) contact block.
- § Pigtail length is 7 in.
- * Operator only supplied without power module, lamp, lens cap, or contact blocks.

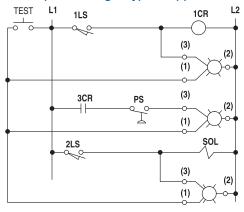
Typical Pilot Light Wiring Diagrams

See applicable Codes and Laws.

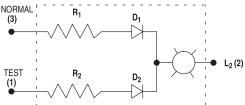
Push-to-Test Pilot Light Device Schematic



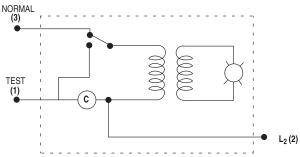
Dual Input Pilot Light Typical Application Wiring Diagram



Dual Input Diode Pilot Device Schematic



Dual Input Pilot Light Transformer Type Device Schematic



Electrical Ratings					
Contact Ratings		Refer to the contact ratings tables below.			
		<u> </u>			
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		102000 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 7 & 9 Explosion Proof (Type 3 and Type 4 ratings available with accessories)			
Mechanical Design Life Cy	cles				
Push Buttons		250 000 minimum			
Potentiometers		100 000 minimum			
All other devices		200 000 minimum			
Contact Operation		Shallow and mini contact blocks: slow double make and break Logic Reed & sealed switch contact blocks: snap-action			
Wire Guage/Terminal Screw Torque		# 1812 AWG/68 lb•in			
Typical Operating Forces					
Operators without contact	ot blocks:	Flush, extended, standard mushroom, jumbo mushroom: 2.9 lb max. Jumbo and extended aluminum mushroom head: 3.95 lb maximum Maintained selector switch: 4.0 in•lb maximum			
Spring Return Selector S	witches:	5 in∙lb to stop, 0.2 in∙lb to return			
Illuminated Push Buttons	and Push-to-Test Pilot Lights	5.6 lb maximum			
2-Position Push-Pull		9 lb maximum push or pull			
3-Position Push-Pull		12 lb maximum push to in position or pull to center position (15 lb maximum pull to out position)			
	800T-XA	1 lb			
0	Logic Reed	1 lb maximum			
Contact Blocks:	Sealed Switch	3 lb maximum at 0.205 in. plunger travel			
	Stackable Sealed Switch	1 lb maximum			
		Environment			
	Operating	-4+13 °F (-20+55 °C)			
Temperature Range	Storage	-40+185 °F (-40+85 °C)			
Note: Operating temperatu	· ·	osence of freezing moisture and liquids.			
Humidity	<u> </u>	50% at +104 °F (+40 °C)			

- * Performance Data See page Important-3.
- * External thread major diameter: 1.034 in. max., 1.024 in. min. Internal thread minor diameter: 0.958 in. min., 0.970 in. max.

Standard Contact Ratings

Maximum thermal continuous current $I_{\rm th}$ 10 A AC/2.5 A DC. Bulletin 800H Type 7 & 9 units with 800T-XA contacts have ratings as follows:

Max. Oprtnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC	NEMA	Volts U _e	Make	Break
			120600	7200VA	720VA
AC 600 AC-15	AC-15	A600	72120	60 A	720VA
			2428*	60 A	10 A
DO 000	DO 10	0000	28600	69	VA
DC 600	DC-13	Q600	2428*	2.5	5 A

For applications below 24V and 24 mA, PenTUFF™, Logic Reed or stackable sealed switch contacts are recommended.

Sealed Switch Contact Ratings

Maximum continuous current Ith 5 A.

Max. Oprtnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC NEMA		Volts U _e	Make	Break
AC 600	AC-15	B600	120600	3600VA	360VA
AC 600 AC	AC-15	D000	0120	30 A	3 A
DC 300	DC-13	P300	24300	138	BVA
DC 300	DC-13	P300	024	5.0) A

Stackable Sealed Switch Contact Ratings

Maximum continuous current I_{th} 3 A. Bulletin 800T units have control circuit ratings with sealed switch contact blocks as follows:

Max. Oprtnl.		Utilization Category		Rated Operational Currents		
Volts				Volts U _e	Make	Break
AC (200	AC-15	C300	120300	1800VA	180VA
AC .	AC 300	AC-15	C300	0120	15 A	1.5 A
DC :	150	DC-13	DO 10 0150		69	VA
	DC 150		Q150	024	2.5	5 A

Logic Reed Contact Ratings

Maximum: 150V AC, 0.15 A, 8 VA and 30V DC, 0.06 A, 1.8 VA.

Should only be used with resistive loads.

PenTUFF™ (Low Voltage) Contact Ratings

Minimum DC: 5V, 1 mA

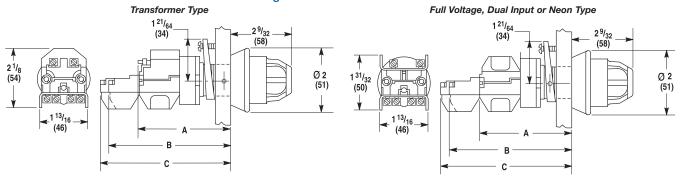
Maximum thermal continuous current Ith 2.5 A AC/1.0 A DC. Bulletin 800H units with 800T-XAV contacts have ratings as follows:

Max. Oprtnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC	NEMA	Volts U _e	Make	Break
AC 300	AC-15	AC-15 C300		1800VA	180VA
AC 300	AC-15	C300	0120	15 A	1.5 A
DC 150 DC-13		R150	24150	28	VA
DC 150	DC-13	n 150	024	1.0) A

Approximate Dimensions and Shipping Weights, Continued

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

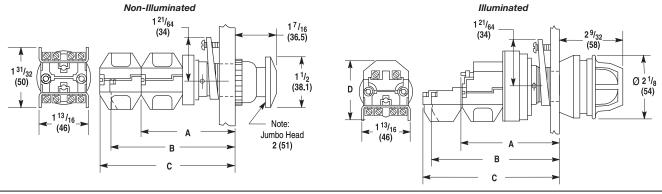
Illuminated Push Buttons or Push-to-Test Pilot Lights



Illuminated I	Push Buttons,	Push-to-	Test Pilot Lights

Description	Style	A *	В	С	Ship. Wt. [oz (kg)]
T (T	Standard Barrel	3-5/32 (80.2)	3-29/32 (99)	4-1/8 (105)	14 (0.40)
Transformer Type	Long Barrel	5-1/16 (128.6)	5-13/16 (147.6)	6-1/16 (154)	16-3/16 (0.45)
Full Voltage Duel Input or Near Time	Standard Barrel	3-1/32 (77)	3-29/32 (99)	4-1/8 (105)	11-5/8 (0.33)
Full Voltage Dual Input or Neon Type	Long Barrel	4-15/16 (125.4)	5-13/16 (147.6)	6-1/16 (154)	13-7/16 (0.38)

Push-Pull Units



Push-Pull Units							
Description	Style	A *	В	С	D	Ship. Wt. [oz (kg)]	
Illuminated Transformer Type	Standard Barrel	3-9/16 (90.5)	4-9/16 (115.9)	4-5/8 (117.5)	2-1/8 (54)	15-1/2 (0.44)	
	Long Barrel	4-21/32 (118.3)	5-13/32 (137)	5-21/32 (143.7)	2-1/8 (54)	17-7/16 (0.49)	
Illuminated Full Voltage Time	Standard Barrel	3-7/16 (87.3)	4-9/16 (115.9)	4-5/8 (117.5)	1-31/32 (50)	12-13/16 (0.33)	
Illuminated Full Voltage Type	Long Barrel	4-17/32 (115.1)	5-13/32 (137)	5-21/32 (143.7)	1-31/32 (50)	14-3/4 (0.41)	
N	Standard Barrel	3-1/2 (88.9)	4-3/8 (111.1)	4-5/8 (117.5)	_	11-1/8 (0.32)	
Non-Illuminated Push-Pull Units	Long Barrel	4-17/32 (115.1)	5-13/32 (137)	5-21/32 (143.7)		12-5/16 (0.34)	

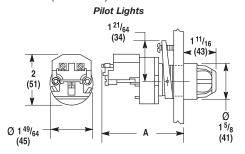
 $[\]boldsymbol{\ast}$ When using sealed switch contact block add 7/8 in. (22.2 mm) to the listed dimension.

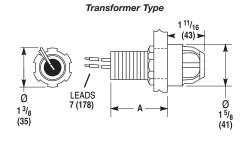
Hazardous Location Push Buttons

Approximate Dimensions

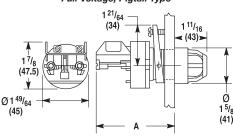
Approximate Dimensions and Shipping Weights, Continued

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



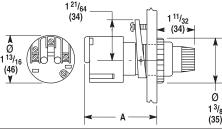


Full Voltage, Pigtail Type



Description	Style	Α	Ship. Wt. [oz (kg)]
Transformer type and dual input transformer type pilot lights	Standard Barrel	3-5/32 (80)	8-9/16 (0.24)
transformer type and dual input transformer type pilot lights	Long Barrel	4-9/16 (115.9)	30-1/4 (0.85)
Full voltage, neon or dual input diode and resistor type pilot lights	Standard Barrel	3-1/32 (77)	5-13/16 (0.17)
ruli voltage, neon or dual input diode and resistor type pilot lights	Long Barrel	4-7/16 (112.7)	27-1/2 (0.77)
Full colleges winds the man with the base	Standard Barrel	2-3/16 (55.5)	5-5/8 (0.16)
Full voltage pigtail type pilot lights	Long Barrel	3-43/64 (94)	8-5/16 (0.24)

Potentiometer Units



Style	A	Ship. Wt. [oz (kg)]
Standard barrel	3-1/8 (79.5)	5-3/8 (0.16)
Long barrel	4-1/2 (114.3)	8 (0.23)