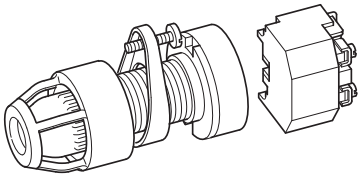


Pilot Light Units

800 H – PP T 16 M
 a b c d e f



a	
Barrel Type	
Code	Description
H	Standard barrel length
HL	Long barrel

b	
Power Module Type	
Code	Description
PP	Transformer (or dual input)
QP	Full voltage/Universal
LP	Pigtail — full voltage*
LPK	Pigtail — full voltage* (for dual push buttons)

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

d	
Illumination Option	
Code	Description
Blank	Incandescent
H	LED♣

e	
Voltage	
Transformer	
Code	Description
16	120V AC, 50/60 Hz
26	240V AC, 50/60 Hz
46	480V AC, 50/60 Hz
56	600V AC, 50/60 Hz
Full Voltage — Incandescent	
Code	Description
24	24V AC/DC
10	120V AC/DC
20	240V AC/DC
Universal — LED	
Code	Description
2	12...130V AC/DC
Dual Input	
Code	Description
16	120V AC
24	24V AC/DC♣
Pigtail	
Code	Description
24	24V AC/DC
10	120V AC/DC
20	240V AC/DC

f	
Lens Color	
Code	Color
Blank	No lens with no contacts
M	Multi-color*

Note: Push-to-test pilot light is supplied with a factory jumpered 800T-XA, 1 N.O - 1 N.C contact block.
* Multi-color insert packet includes amber, blue, green, red, and white
* Lamp test options is not available with pigtail.
† Only available with power module type code **PP**.
♣ LED illumination option is not available with diode type dual input lamp test options.
♣ Dual input diode only.

Specifications*

Electrical Ratings	
Contact Ratings	Refer to the contact ratings tables below.
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 7 & 9 Explosion Proof (Type 3 and Type 4 ratings available with accessories)
Mechanical Design Life Cycles	
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 Gauge/Terminal Screw Torque	# 18...12 AWG/6...8 lb•in
Typical Operating Forces	
Operators without contact 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 Switches:	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)
Contact Blocks:	
800T-XA	1 lb
Logic Reed	1 lb maximum
Sealed Switch	3 lb maximum at 0.205 in. plunger travel
Stackable Sealed Switch	1 lb maximum
Environment	
Temperature Range	Operating: -4...+13 °F (-20...+55 °C) Storage: -40...+185 °F (-40...+85 °C)
Note: Operating temperatures below freezing are based on the absence of freezing moisture and liquids.	
Humidity	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_{th} 10 A AC/2.5 A DC.
 Bulletin 800H Type 7 & 9 units with 800T-XA contacts have ratings as follows:

Max. Oprtnl. Volts U_e	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 600	AC-15	A600	120...600	7200VA	720VA
			72...120	60 A	720VA
			24...28*	60 A	10 A
DC 600	DC-13	Q600	28...600	69VA	
			24...28*	2.5 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 I_{th} 5 A.

Max. Oprtnl. Volts U_e	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 600	AC-15	B600	120...600	3600VA	360VA
			0...120	30 A	3 A
DC 300	DC-13	P300	24...300	138VA	
			0...24	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. Volts U_e	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 300	AC-15	C300	120...300	1800VA	180VA
			0...120	15 A	1.5 A
DC 150	DC-13	Q150	24...150	69VA	
			0...24	2.5 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

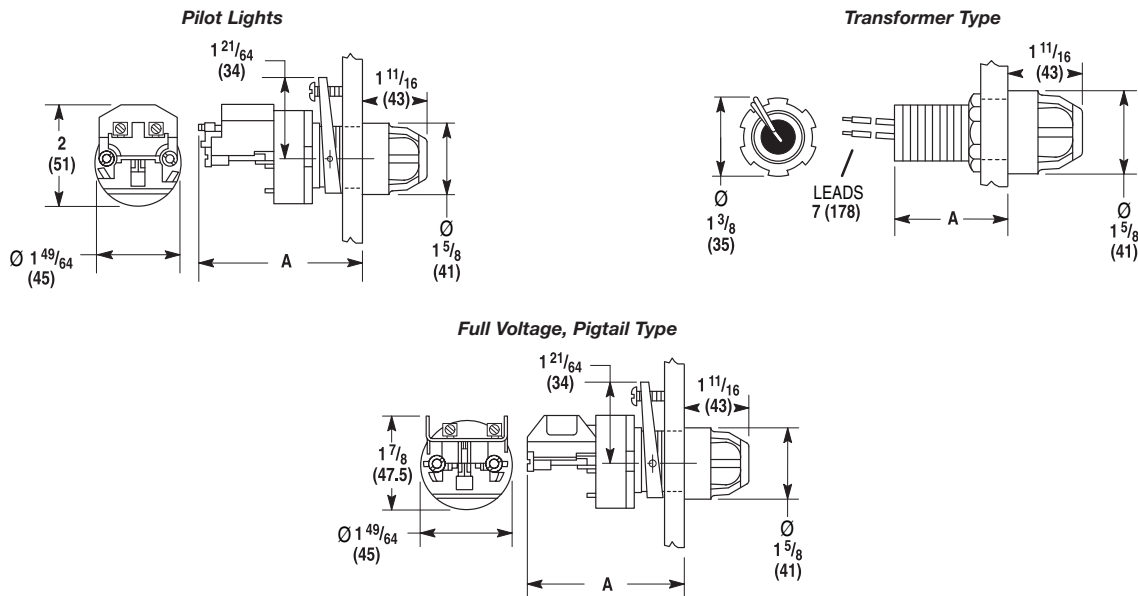
Maximum thermal continuous current I_{th} 2.5 A AC/1.0 A DC.

Bulletin 800H units with 800T-XAV contacts have ratings as follows:

Max. Oprtnl. Volts U_e	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 300	AC-15	C300	120...300	1800VA	180VA
			0...120	15 A	1.5 A
DC 150	DC-13	R150	24...150	28VA	
			0...24	1.0 A	

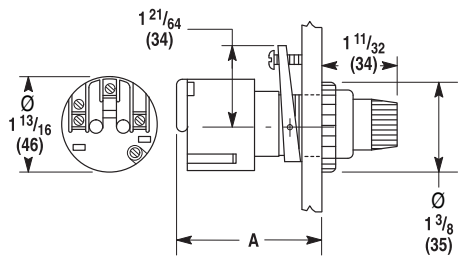
Approximate Dimensions and Shipping Weights, Continued

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



Description	Style	A	Ship. Wt. [oz (kg)]
Transformer type and dual input transformer type pilot lights	Standard Barrel	3-5/32 (80)	8-9/16 (0.24)
	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)
	Long Barrel	4-7/16 (112.7)	27-1/2 (0.77)
Full voltage pigtail type pilot lights	Standard Barrel	2-3/16 (55.5)	5-5/8 (0.16)
	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)