

30 mm Push Button Specifications

Bulletin Numbers 800T and 800H

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Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://www.rockwellautomation.com/literature/. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.







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)		
		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 \geq 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				
B 11 "	(Momentary, non-illuminated, flush and extended head)	10,000,000 min.		
Push buttons	(Momentary, illuminated)	250,000 min.		
	(Push-pull/twist-to-release)	250,000 min. ‡		
0-1	(Non-illuminated)	1,000,000 min.		
Selector switches	(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		#1814 AWG (#1810 Max Duty) / 68 lb•in		
Typical operating forces Operators without contact I	plocks	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 switch	hes	3.6 in•lb to stop, 0.2 in•lb to return		
Illuminated push buttons ar		5 lb max.		
2-position push-pull	1	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-pu	II	9 lbs max. push or pull 30 in•oz max. twist, 6 in•oz minimum return		
Potentiometer		Rotational torque 312 in•oz; stopping torque 12 in•lb (minimum)		
	Standard	1 lb		
	Logic Reed	1 lb max.		
	Sealed switch	3 lb max. at 0.205 in. plunger travel		
Contact blocks	Stackable sealed switch	1 lb max.		
	MaxDuty	1.4 lb max.		
	PenTUFF	1.4 lb max.		
	Self Monitoring	1.6 lb		
	, ,	Environment		
	Operating	-40+131 °F (-40+55 °C)		
Temperature range	Storage	-40+185 °F (-40+85 °C)		
Rockwell Automation s				
Humidity		5095% RH from 77140 °F (2560 °C) per Procedure IV of MIL-STD-810C, Method 507.1 cycling test		

^{*} Performance Data — Performance data given in this publication is provided only as a guide for the user in determining suitability and do not constitute a performance warranty of any kind. Such data may represent the results of accelerated testing at elevated stress levels, and the user is responsible for correlating the data to actual application requirements. ALL WARRANTIES AS TO ACTUAL PERFORMANCE, WHETHER EXPRESS OR IMPLIED, ARE EXPRESSLY DISCLAIMED.

[‡] Illuminated Trigger Action E-stops are rated for 150,000 min. mechanical operations when using Cat. No. 800TC-XD4S Self-Monitoring Contact Blocks (SMCBs).

Standard Contact Ratings

Minimum: 24V, 24 mA

Maximum thermal continuous current $\it t^{th}$ 10 A AC/2.5 A DC. Bulletin 800T units with 800T-XA contacts have ratings as follows:

Max. Opertnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC	NEMA	Volts U _e	Make	Break
AC 600	AC-15	A600	120600 72120 2472	7200VA 60 A 60 A	720VA 720VA 10 A
DC 600	DC-13	Q600	28600 2428*	69 2.5	

[★] For applications below 17V/5 mA, PenTUFF or Logic Reed contacts are recommended.

Electrical design life cycles: 1,000,000 (at max. rated load)

Explosion-Protected Contact Ratings

Max. Opertnl. Volts <i>U</i> e	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts U _e	Make	Break
AC 600	AC-15	A600	120600 72120 2472	7200VA 60 A 60 A	720VA 720VA 10 A
DC 600	DC-13	Q600	28600 2428	69 2.5	

Maximum thermal continuous current Ith = 10 A Minimum low energy switching load: 17V DC, 5 mA Electrical design life cycles: 1,000,000 (24V DC, 25 mA) Vibration: 5 g, 0.7 mm peak-to-peak displacement, sine sweep 10...2000 Hz / IEC 60068-2-6

Shock: 15 g (800H-TFRX $_$ trigger action E-stops), 50 g (all other devices) / IEC 60068-2-27

Sealed Switch Contact Ratings

Minimum: 5V, 1 mA

Maximum continuous current $I_{\rm th}$ 5 A. Bulletin 800T units have control circuit ratings with sealed switch contact blocks as follows:

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

Stackable Sealed Switch Contact Ratings

Minimum: 5V, 10 mA (digital); 24V, 1 mA (analog)

Maximum continuous current I_{th} 2.5 A. Bulletin 800T units have control circuit ratings with sealed switch contact blocks as follows:

Max. Opertnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC	NEMA	Volts U _e	Make	Break
AC 300	AC-15	C300	120300 0120	1800VA 15 A	180VA 1.5 A
DC 150	DC-13	Q150	24150 024	69VA 2.5 A	

Logic Reed Contact Ratings

Minimum — DC: 5V, 1 mA

Maximum — DC: 30V, 0.06 A, AC: 150V, 0.15 A Should only be used with resistive loads.

Electrical design life cycles: 200,000 (at max. rated load)

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

Max. Opertnl.	Utilization Category		Rated Operational Currents		
Volts U _e	IEC	NEMA	Volts U _e	Make	Break
AC 300	AC-15	C300	120300 0120	1800VA 15 A	180VA 1.5 A
DC 150	DC-13	R150	24150 024	28VA 1.0 A	

Snap Action Contact Ratings

Max. Opertnl. Volts <i>U</i> _e	Contact Rating Designation	Rated Operational Currents		
		Volts U _e	Make	Break
AC 300	A300	120300 2472	7200VA 60 A	720VA 10 A
DC 250	_	230250 115125	0.2 A 0.4 A	

MaxDuty Contact Rating

Maximum thermal continuous current $I_{\rm th}$ 24 A. Pilot Duty — 120V AC, 12 A; 24V DC, 10 A Motor Ratings — 120V AC, 1.5 Hp; 240V AC, 3 Hp; 24V DC, 10 A FLA/60 A LRA

Time Delay Contacts

Max. Opertnl.	Contact Rating	Rated 0	Operational Currents	
Volts U _e	Designation	Volts U _e	Make	Break
AC 120	B150	120	3600VA	360VA

Note: This device is not rated for DC applications. Adjustment range: $0.5...15 \text{ s} \pm 25\% I_{th} = 5 \text{ A}$

Materials Used in 800H Type 4X Operators

Thermoplastic Polyester (Fiberglass Reinforced)

- Bushings
- Mounting Rings
- Sockets

Transparent Amorphous Nylon

- · Pilot light lens cap
- Illuminated button caps

Mineral Filled Nylon

• Trim washer

Standards Compliance

UL 508

CCC

Thermoplastic Polyester

Non-illuminated button caps

Glass Filled Crystalline Nylon

Thrust washer

Nitrile (Synthetic Rubber)

• Gaskets and internal seals

Certifications

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

CSA Certified

(File No. LR1234, LR11924)

CSA C22.2, No. 14

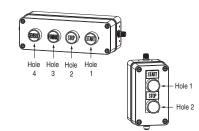
CE Marked (EN/IEC 60947-5-1, EN/IEC 60947-5-5, EN ISO 13850)

DeviceNet Stations

Two-

Unit <u>800T</u> –

b c d c d e
(Hole One (Hole Two
c + d) c + d)



е

Three-

Unit <u>800T</u> –

Four-

Unit 800T -

a

b

a

	Orientation			
Code	Description			
V	Vertical			
Н	Horizontal			

b

	Enclosure Style			
Grey Code	Description	Yellow Code		
Α	2-hole	K		
В	3-hole	L		
С	4-hole	М		
G	E-stop only♣	N		

C

Operator Types				
Code	Description			
Α	Non-illuminated flush (800T-A*)			
В	Non-illuminated extended (800T-B*)			
С	Non-illuminated mushroom (800T-D*)			
D	Illuminated mushroom (800T-QM*)			
E	Illuminated extended (800T-QB*)			
F	Illuminated guarded (800T-QA*)			
G	2-position SS maintained (800T-H2*)			
Н	3-position SS maintained (800T-J2*)			
J	Enhanced pilot light (800T-QH*)			
К	Non-illuminated 2-position push/pull (800T-FX*)§			
L	Non-illuminated push/pull twist-to-release (800T-FXT*)§			
М	Illuminated 2-position push/pull (800T-FXQH*)			
N	2-position key SS (800T-H33*)‡			
Р	3-position key SS (800T-J44*)‡			
Q	2-position SS spring return from right (800T-H5*)			
R	3-position SS spring return from all (800T-J91*)			
Т	Illuminated 2-position SS maintained (800T-24H*H*)			
U	Illuminated 3-position SS maintained (800T-24J*H*)			
V	Non-illuminated 3-position push/pull (800T-FXM*)			
W	Potentiometer.			

d

Color/Text				
Code	Description			
1	Green			
2	Black (non-illuminated only)			
3	Orange (non-illuminated only)			
4	Grey (non-illuminated only)			
5	White			
6	Red			
7	Blue			
8	Clear (illuminated only)			
9	Yellow (non-illuminated)/ amber (illuminated)			
Α	Green with Start legend			
В	Red with Stop legend			
С	Red with E-Stop legend			
D	Black with Off/On legend			
Е	Black with Hand/Off/Auto legend			
F	Red with Push to Stop/Pull to Start legend			
G	Blue with Reset legend			
Н	Red with Power On legend			
Χ	N/A (i.e. key ss)			

е				
	External I/O Version ◆			
Code	Description			
Blank	No external I/O			
Α	1 input/1 output (sinking)			
В	1 input/1 output (sourcing)			
С	2 input			
E	2 output (sourcing)			
F	1 E-stop block∆			
G	2 E-stop blocks∆			
Н	2 input + 2 input			
K	2 input + 2 output (sourcing)			
L	1 input/1 output (sinking) +			
	1 E-stop block∆			
М	1 input/1 output (sourcing) +			
	1 E-stop block∆			
N	1 input/1 output (sinking) + 2 E-stop blocks∆			
-	1 input/1 output (sourcing) +			
Р	2 E-stop blocks∆			
Q	2 input + 1 E-stop block∆			
R	2 input + 2 E-stop blocks∆			
U	2 output (sourcing) + 1 E-stop block∆			
W	2 output (sourcing) + 2 E-stop blocks∆			
Х	2 input + 1 input/1 output (sinking)			
	,			

- ‡ Operator Types N and P from Table c must choose Color/Text option X from Table d.
- § Operator Types K and L from Table c may be used as Emergency Stops. To be valid as an E-Stop, the operators must use Color/Text option C from Table d and it must be placed in the last hole position in the enclosure. An E-Stop connector also must be chosen from Table e.
- Enclosure Style option G from Table b can only select one operator from Table c. Valid options are K and L with E-Stop.
- Δ External I/O Versions F, L, M, Q, and U receive only one contact block for the external E-Stop string. These connectors are rated to 3 A. If more than 3 A of current is needed or if there are two E-Stop strings, use External I/O Versions G, N, P, R, and W. These versions receive two contact blocks. This allows for 6 A of switching or for two E-Stop strings.
- This is an 8-in/4-out device. 2-in/1-out is assigned to each hole position in the enclosure. If a 2-hole enclosure is selected, 4-in and 2-out are assigned internally and up to 4 unassigned I/O points can be assigned to external connectors. This device contains up to two physical external I/O connectors. The "+" symbol in the Description field of Table e indicates that two external connectors exist. If an E-Stop connector is used, 2 unassigned I/O points can be assigned to the other connector.
- Available for certain applications, please contact your local Allen-Bradley distributor.

2-Position Red Trigger Action Twist-to-Release, Non-Illuminated

- Tamper resistant front-of-panel mounting and non-removable operator head
- Compliant with global E-stop standards, including EN ISO 13850 and EN 60947-5-5









Cat. No. 800T-TFXJET6

Cat. No. 800T-TFXLET6

Cat. No. 800T-TFXK6

Cat. No. 800H-TFRXT6

800

6 Т

D2

а

	Protection Rating			
Code	Description			
Т	Metal, Type 4/13			
Н	Plastic, Type 4/4X/13			

b

Finger-Safe Guards			
Code	Description		
Blank	No guards		
С	Guards on terminals		

С

	Head Type			
800T Type 4/13	Description			
Code				
TFX	Standard (45 mm) mushroom head	TFRX		
TFXJ	Jumbo (60 mm) mushroom head	TFRXJ		
TFXJE	Jumbo (60 mm) mushroom head with "E-STOP"	TFRXJE		
TFXK	45 mm mushroom head key release	_		
TFXL	63 mm anodized aluminum head	_		
TFXLE	63 mm anodized aluminum head with "E-STOP"	_		

Release Function			
Code	Color		
Blank	Key release ▲		
Т	Twist release		

е					
	Contact Block(s)				
	Operator	Position			
Code			Description		
	Out	In			
Blank	_	_	No contacts on operator		
			Standard		
D2	Х	0	1 N.C.		
А	O X	X O	1 N.O 1 N.C.		
A4	X X	0	2 N.C.		
PenTUFF (Low Voltage)					
D2V	Х	0	1 N.C.		
AV	O X	X	1 N.O 1 N.C.		

Note: X = Closed/O = Open ♠ Configurable only with **FXK** head type.

2-Position Red Trigger Action Twist-to-Release, Illuminated

- Tamper resistant front-of-panel mounting and non-removable operator head
- Compliant with global E-stop standards, including EN ISO 13850 and EN 60947-5-5
- LED illumination provided as standard







Cat. No. 800T-TFXJETS00R







Cat. No. 800H-TFRXJETS00R

800	Т		- TFXT
	a	b	С

_		
-		
ч		

QH	2	R	Α
d	е		f
			£

Protection Rating	
Code	Description
Т	Metal, Type 4/13
Н	Plastic, Type 4/4X/13

b

Finger-Safe Guards	
Code	Description
Blank	No guards
С	Guards on terminals

С

Head Type		
800T Type 4/13	Description	800H Type 4/4X/13
Code		
TFXT	Standard (45 mm) mushroom head	TFRXT
TFXJT	Jumbo (60 mm) mushroom head	TFRXJT
TFXJET	Jumbo (60 mm) mushroom head with "E-STOP"	TFRXJET

<u>u</u>	
Illumination Option	
Code	Description
PH	Transformer with LED lamp
QH	Universal with LED lamp

	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		
	Universal		
Code	Description		
2	12130V AC/DC		

,		
Target		
Contact		
N.O.	0	X
N.C./ N.C.L.B./ S.M.C.B.	Х	0
Contact Blocks		
Code	Descr	ription
Blank	No co	ntacts
Standard		
D2	1 N	I.C.
D4S	1 S.N	1.C.B.
А	1 N.O 1 N.C.	
G1	2 N.O	- 2 N.C.
PenTUFF (Low Voltage)		
D2V	1 N	I.C.
AV	1 N.O	- 1 N.C.
G1V	2 N.O	- 2 N.C.

Note: X = Closed/O = Open

Momentary Contact Push Button Devices, Non-Illuminated



Flush Head Unit Cat. No. 800T-A1A



Extended Head Unit Cat. No. 800T-B6A



Booted Unit Cat. No. 800H-R2A



Bootless Flush Head Unit Cat. No. 800H-AR1A







 $\frac{1}{d}$





a

Protection Rating	
Code	Description
Т	Metal, Type 4/13
Н	Plastic, Type 4/4X/13

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

C

•		
Operator Type		
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
Α	Flush head	AR
В	Extended head	BR
D	Mushroom head	DR
DX	Mushroom head less color cap	DRX
_	Bootless guarded head	GR
_	Booted head	R★

d

<u>u</u>		
Color Cap		
Code	Description	
Blank	Used only when ordering Operator Type DX/DRX	
1	Green	
2	Black	
3	Orange‡	

d (cont'd)

Color Cap	
Code	Description
4	Grey‡
5	White‡
6	Red
7	Blue
9	Yellow

е

Special Mushroom Head	
Code Description	
J 	Jumbo mushroom head — plastic
L.	Jumbo mushroom head — metal

Note: Special mushroom head options only apply to mushroom head operator type code D/DR (Table c).

f

<i>T</i>			
Contact Block(s)			
Code Description			
Blank	No contacts		
	Standard		
D1	1 N.O.		
D2	1 N.C.		
D3	1 N.O.E.M.		
D4	1 N.C.L.B.		
D5	1 N.O. (Mini)		
D6	1 N.C. (Mini)		
A1	1 N.C.L.B 1 N.O.		
A2	2 N.O.§		
A4	2 N.C.		
A7	1 N.C.L.B 1 N.C.		
Α	1 N.O 1 N.C.		
В	2 N.O 2 N.C.		

f (cont'd)

Contact Block(s)				
Code Description				
F	PenTUFF (Low Voltage)			
D1V	1 N.O.			
D2V	1 N.C.			
D3V	1 N.O.E.M.			
D4V	1 N.C.L.B.			
AV	1 N.O 1 N.C.			
BV	2 N.O 2 N.C.			
	Time Delay			
Т	1 N.O. Depress close, delayed opening			
S	1 N.C. Depress open, delayed closure			
	Snap Action			
М	1 N.O 1 N.C.			
Ν	2 N.O 2 N.C.			
	Class 1, Div. 2			
	Logic Reed			
D1R	1 N.O.			
D2R	1 N.C.			
A2R	2 N.O.§			
A4R	2 N.C.			
AR	1 N.O 1 N.C.			
BR	2 N.O 2 N.C.			

f (cont'd)

,			
Contact Block(s)			
Description			
Class 1, Div. 2			
Sealed Switch			
1 N.O.			
1 N.C.			
1 N.O 1 N.C.			
2 N.O 2 N.C			
tackable Sealed Switch			
1 N.O.			
1 N.C.			
2 N.O.			
2 N.C.			
1 N.O 1 N.C.			
2 N.O 2 N.C			

Time Delay Contacts

Series C field installable kits can only be used with Series T or later operators. Adjustable range of 0.5 to 15 s + 25%. Maximum continuous current Ith 5 A.

Snap Action Contacts

Snap-action contacts feature a quick make, quick break snap-action mechanism that is only available on factory assembled units. Maximum continuous current $I_{\rm th}$ 10 A.

- ★ Underlying operators are extended head. Boot material is chlorosulfonated polyethylene.
- ‡ Not available for booted operators.
- § A2 and A2R contact blocks cannot be stacked upon, but can stack on other contact blocks.
- Jumbo mushroom heads not available in white color.

7

Momentary Contact Push Button Devices, Illuminated



Extended Head Without Guard Cat. No. 800T-PB16R



Extended Head without Guard Cat. No. 800H-PRB16R

800 T

T a



 $\frac{\mathsf{B}}{\mathsf{d}}$ $\frac{\mathsf{H}}{\mathsf{B}}$

16

 $\frac{R}{q}$

h



a

Protection Rating		
Code Description		
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards			
Code Description			
Blank	No guards		
С	Guards on terminals		

C

Power Module Type			
800T Type 4/13	Description	800H Type 4/4X/13	
Code		Code	
Р	Transformer (or dual input)	PR	
Q	Full voltage/ Universal	QR	

d

Head Type				
Code	Description			
Α	Extended head with guard			
В	Extended head without guard			
М	Mushroom			
MJ	Jumbo mushroom			

Illumination Options				
Code	Description			
Blank	Incandescent			
Н	LED			
Dual Input				
D	Diode type§			
Т	Transformer — relay type			
TH Transformer — relay type LED				

f

Voltage			
Transformer			
Description			
120V AC, 50/60 Hz			
240V AC, 50/60 Hz			
480V AC, 50/60 Hz			
600V AC, 50/60 Hz			
Voltage — Incandescent			
12V AC/DC			
24V AC/DC			
48V AC/DC			
120V AC/DC			
240V AC/DC			
Universal — LED			
12130V AC/DC			
Dual Input			
120V AC			
24V AC/DC♦			

Lens Color			
Code	Description		
Blank	No lens with standard contacts 1 N.O 1 N.C.		
Х	No lens if ordering any contacts other than standard 1 N.O 1 N.C.		
Α	Amber		
В	Blue		
С	Clear		
G	Green		
R	Red		
W	White		

<u> </u>				
	Contact Block(s)			
Code	Description			
X	No contacts			
	Standard			
Blank	1 N.O 1 N.C.			
D1	1 N.O.			
F	PenTUFF (Low Voltage)			
AV	1 N.O 1 N.C.			
	Class 1, Div. 2			
	Logic Reed			
AR	1 N.O 1 N.C.			
	Sealed Switch			
AP	1 N.O 1 N.C.			
St	Stackable Sealed Switch			
AY 1 N.O 1 N.C.				

- § Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
- Dual input diode only.

Momentary Contact Push Button Devices, Non-Illuminated — With Two-Color Molded Legend Caps





Cat. No. 800T-A00 with Cat. No. 800T-LC103W installed

Cat. No. 800H-BR00 with Cat. No. 800T-LC604 installed

800	Т	-	- A	103W	Α
	а	b	С	d	е

a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards	
Code	Description
Blank	No guards
С	Guards on terminals

С

Operator Type		
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
A	Flush head	AR
В	Extended head	BR

	Cap Text/	Color	
01-	T4	Color	
Code	Text	Cap	Text
101W	I		
103W	START	Green	White
105W	ON	Green	VVIIILE
121W	START / I		
202W	0		
204W	STOP		
207W	RESET		
208W	1		
209W	FORWARD		
210W	REVERSE		
212W	JOG		
213W	UP	Black	White
214W	DOWN	Віаск	vviiite
215W	RAISE		
216W	LOWER		
217W	IN		
218W	OUT		
219W	HIGH		
220W	LOW	1	
222W	STOP / O	1	
501B			
503B	START	White	Black
508B	1		DIACK
521B	START / I		
602W	0		
604W	STOP	Red V	White
606W	OFF		vviile
622W	STOP / O		
707W	RESET	Blue	White
711W	R	Diue	vviille

d

	Contact Block(s)		
Code	de Description		
Blank	No contacts		
	Standard		
D1	1 N.O.		
D2	1 N.C.		
D3	1 N.O.E.M.		
D4	1 N.C.L.B.		
D5	1 N.O. (Mini)		
D6	1 N.C. (Mini)		
A1	1 N.C.L.B 1 N.O.		
A2	2 N.O.§		
A4	2 N.C.		
A7	1 N.C.L.B 1 N.C.		
Α	1 N.O 1 N.C.		
В	2 N.O 2 N.C.		
	Class 1, Div. 2		
	Sealed Switch		
D1P	1 N.O.		
D2P	1 N.C.		
AP	1 N.O 1 N.C.		
BP	2 N.O 2 N.C		
	Stackable Sealed Switch		
D1Y	1 N.O.		
D2Y	1 N.C.		
A2Y	2 N.O.		
A4Y	2 N.C.		
AY	1 N.O 1 N.C.		
BY	2 N.O 2 N.C		

е

e (cont'd)

Contact Block(s)			
Code Description			
F	PenTUFF (Low Voltage)		
D1V	1 N.O.		
D2V	1 N.C.		
D3V	1 N.O.E.M.		
D4V	1 N.C.L.B.		
AV	1 N.O 1 N.C.		
BV	2 N.O 2 N.C.		
	Time Delay		
Т	1 N.O. Depress close, delayed opening		
S	1 N.C. Depress open, delayed closure		
Snap Action			
М	1 N.O 1 N.C.		
N	2 N.O 2 N.C.		
	Class 1, Div. 2		
	Logic Reed		
D1R	1 N.O.		
D2R	1 N.C.		
A2R	2 N.O.§		
A4R	2 N.C.		
AR	1 N.O 1 N.C.		
BR	2 N.O 2 N.C.		
0 40	ad AOD contact blocks		

§ A2 and A2R contact blocks cannot be stacked upon, but can stack upon other contact blocks.

2-Position Selector Switch Devices, Non-Illuminated



Standard Knob Operator Cat. No. 800T-H2A



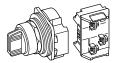
Knob Lever Operator Cat. No. 800T-H17A

d



Standard Knob Operator Cat. No. 800H-HR2A

800



a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

C

Knob Insert Colors		
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
Н	White	HR
HX	Packet of colored inserts‡	HRX
Metal Wing Lever Colors♣		
Code	Color	Code
HA	Red	_
HG	Grey	_

Operator Type and Function

Operator Type and Function	
Standard Knob	
Operator Function	
Maintained	
Spring return from left§	
Spring return from right	
Knob Lever♣	
Operator Function	
Maintained	
Spring return from left§	
Spring return from right	
Metal Wing Lever♣	
Operator Function	
Maintained	
Spring return from left§	
Spring return from right	
Coin Slot♣	
Operator Function	
Maintained	
Spring return from left	
Spring return from right	

	е			
	Contact B	lock(s)		
	Description			
Code	Contact Configuration	2-Position		
Code		\bigcirc	\bigcirc	
Blank	No contacts		_	
	Standa	ard		
D1	1 N.O.	0	Х	
D2	1 N.C.	Х	0	
Α	1 N.O 1 N.C.	0	Х	
_ ^	1 14.0 1 14.0.	Х	0	
		0	Х	
В	2 N.O 2 N.C.	Х	0	
Ь	2 N.O 2 N.O.	0	Х	
		Х	0	
	Max Duty (Horsep	ower Rated	d)∆	
D1M	1 N.O.			
D2M	1 N.C.			
	Pen <i>TUFF</i> (Low Voltage)∆			
D1V	1	1 N.O.		
D2V	1	N.C.		
AV	1 N.O	1 N.O 1 N.C.		
BV	2 N.O 2 N.C.			
	Class1, I	Div. 2		
	Logic Re	eed∆		
D1R	1	N.O.		
D2R		1 N.C.		
AR	1 N.O 1 N.C.			
BR		2 N.C.		
	Sealed Sv			
D1P	1	1 N.O.		
D2P		N.C.		
AP	1 N.O	1 N.C.		

2 N.O. - 2 N.C. Stackable Sealed Switch∆

1 N.O.

1 N.C.

1 N.O. - 1 N.C.

2 N.O. - 2 N.C.

BP

D1Y

D2Y

AY

BY

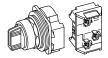
- ‡ One insert of each color (blue, green, orange, red, and yellow).
 § Target tables are reversed from those shown.
 ♣ Only available on Bul. 800T, Type 4/13 operators.
 △ Contact target tables same as those listed for standard contact blocks.

2-Position Selector Switch Devices, Non-Illuminated (Bul. 800T only)



2-Position Cylinder Lock Operator Cat. No. 800T-H33A

800



a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	

b

Finger-Safe Guards	
Code Description	
Blank	No guards
С	Guards on terminals

	C		
Key Removal Position			
	Maintained		
Code	Operator Function		
H31	Key removal — left		
H32	Key removal — right		
H33	Key removal — both		
	Spring Return From Left		
Code	Operator Function		
H42	Key removal — right★		
	Spring Return From Right		
Code	Operator Function		
H48	Key removal — left		

d

	Key Options for Cylinder Locks∆		
Code	T Series Key No.	Code	T Series Key No.
Blank	D018 (Std. Key)	15	T112
03	D020	16	T115
04	D025	17	T324
05	D335	18	T382
06	D429	19	T404
07	D461	20	T171
08	D111	21	T484
09	D587	22	T547
10	D682	23	T569
11	D713	24	T692
12	D900	25	T752
13	D992	26	T178
14	D118	_	_

- ★ Target tables are reversed from those shown.
 ♣ Contact target tables same as those listed for standard and PenTUFF contact blocks.
 △ Device supplied with 2 keys. Replacement key part no. for standard D018 key is X-181170. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for additional replacement key numbers.

Contact Block(s)	е			
Code Contact Configuration 2-Position Blank No configuration Standard D1 1 N.O. O X D2 1 N.O. X O A 1 N.O 1 N.C. X O A 1 N.O 2 N.C. X O D1M 1 N.O. X O D2M 1 N.O. D D D1W 1 N.O. D D D1V 1 N.O. D D D1V 1 N.O. D D D2V 1 N.O. D D AV 1 N.O 1 N.C. D D Class1, Div. 2 Logic Reed.* D1R 1 N.O. D D D1R 1 N.O. D D D D AR 1 N.O. 2 N.O 2 N.C. D D D D D D D D D D D	Contact Block(s)			
Code Contact Configuration	Description			
Configuration Configuratio	Code		2-Position	
D1			\bigcirc	\bigcirc
D1	Blank	No contacts	_	_
D2 1 N.C. X O A 1 N.O 1 N.C. X O A 2 N.O 2 N.C. X O A X O X A X O X B 2 N.O 2 N.C. X O D1M 1 N.O. D D D2M 1 N.C. D D D1V 1 N.O. D D D2V 1 N.C. D D AV 1 N.O 1 N.C. D D BV 2 N.O 2 N.C. C C Class1, Div. 2 D D D Logic Reed * D D D D1R 1 N.O. D D AR 1 N.O 1 N.C. D D Sealed Switch * D D D D1P 1 N.O. D D AP 1 N.O 1 N.C. D BP 2 N.O 2 N.C. D Stackable Sealed Switch * D D D1Y		Standa	ard	
A 1 N.O 1 N.C. B 2 N.O 2 N.C. O	D1	1 N.O.	0	Х
A 1 N.O 1 N.C.	D2	1 N.C.	Х	0
B 2 N.O 2 N.C. X	۸	1 N O 1 N C	0	Х
B 2 N.O 2 N.C.	A	1 N.O 1 N.O.	X	0
B			0	X
O	D	2 N O 2 N C	Х	0
Max Duty (Horsepower Rated) D1M 1 N.O. D2M 1 N.C. PenTUFF (Low Voltage) D1V 1 N.O. D2V 1 N.C. AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed ♣ D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch ♣ D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch ♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	Ь	2 N.O 2 N.O.	0	Х
D1M 1 N.O. D2M 1 N.C. PenTUFF (Low Voltage) D1V 1 N.O. D2V 1 N.O. AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed * D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch * D1P 1 N.O. 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch * D1Y 1 N.O. 1 N.O. AY 1 N.O 1 N.C.			Х	0
D2M 1 N.C. PenTUFF (Low Voltage) D1V 1 N.O. D2V 1 N.C. AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed ♣ D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch♣ D1P 1 N.O. 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.		Max Duty (Horse	power Rate	d)
PenTUFF (Low Voltage) D1V	D1M	1	N.O.	
D1V 1 N.O. D2V 1 N.C. AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed* D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch* D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch* D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D2M			
D2V 1 N.C. AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed♣ D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch♣ D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.		PenTUFF (Lo	w Voltage)	
AV 1 N.O 1 N.C. BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed. D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch. D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch. D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D1V	1	N.O.	
BV 2 N.O 2 N.C. Class1, Div. 2 Logic Reed. D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch. D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch. D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C. AY 1 N.O 1 N.C.	D2V	-		
Class1, Div. 2 Logic Reed * D1R	AV	1 N.O 1 N.C.		
Logic Reed D1R	BV	2 N.O 2 N.C.		
D1R 1 N.O. D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch* D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch* D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.		Class1, I	Div. 2	
D2R 1 N.C. AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch. D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch. D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.		Logic Re	eed.	
AR 1 N.O 1 N.C. BR 2 N.O 2 N.C. Sealed Switch* D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch* D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D1R	1	N.O.	
BR 2 N.O 2 N.C. Sealed Switch. D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch. D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D2R			
Sealed Switch D1P	AR	1 N.O 1 N.C.		
D1P 1 N.O. D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	BR	2 N.O	2 N.C.	
D2P 1 N.C. AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.		Sealed Sv	vitch.	
AP 1 N.O 1 N.C. BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D1P	1	N.O.	
BP 2 N.O 2 N.C. Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	D2P	1	N.C.	
Stackable Sealed Switch♣ D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	AP			
D1Y 1 N.O. D2Y 1 N.C. AY 1 N.O 1 N.C.	BP			
D2Y 1 N.C. AY 1 N.O 1 N.C.		Stackable Seal	ed Switch.	
AY 1 N.O 1 N.C.	D1Y	1	N.O.	
	D2Y			
BY 2 N.O 2 N.C.		1 N.O 1 N.C.		
	BY	2 N.O 2 N.C.		

3-Position Selector Switch Devices, Non-Illuminated



Standard Knob Operator Cat. No. 800T-J2A

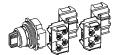


Knob Lever Operator Cat. No. 800T-J17A



Standard Knob Operator Cat. No. 800H-JR2A

800 $\frac{\mathsf{T}}{a}$ $\frac{\mathsf{D}}{b}$ $\frac{\mathsf{D}}{c}$ $\frac{\mathsf{D}}{d}$ $\frac{\mathsf{D}}{e}$



a

	Protection Rating		
Code Description			
Т	Metal, Type 4/13		
Н	Plastic, Type 4/4X/13		

b

Finger-Safe Guards		
Code Description		
Blank	No guards	
С	Guards on terminals	

С

Knob Insert Colors			
800T Type 4/13	Description	800H Type 4/4X/13	
Code		Code	
J	White	JR	
JX	Packet of colored inserts★	JRX	
Me	Metal Wing Lever Colors‡		
Code	Color	Code	
JA	Red	_	
JG	Grey	_	

d

Knob/Lever Type Operators		
Standard Knob		
Code	Operator Function	
2	Maintained	
4	Spring return from left	
5	Spring return from right	
91	Spring return from both	
	Knob Lever‡	
Code	Operator Function	
17	Maintained	
18	Spring return from left	
19	Spring return from right	
20	Spring return from both	
	Metal Wing Lever‡	
Code	Operator Function	
11	Maintained	
15	Spring return from left	
16	Spring return from right	
141	Spring return from both	
Coin Slot‡		
Code	Operator Function	
10	Spring return from both	

е

Cam Option§∆		
Code Description		
Blank	KB7 cam (std.)	
KA1	KA1 cam	
KA7	KA7 cam	

e (cont'd)

Cam Option§∆	
Code	Description
KC1	KC1 cam
KC7	KC7 cam
KD7	KD7 cam
KE7♣	KE7 cam
KQ1	KQ1 cam
KQ7	KQ7 cam
KR1 🌲	KR1 cam
KR7*	KR7 cam
KT1♣	KT1 cam
KT7♣	KT7 cam
KU7♣	KU7 cam

f

	Contact Blocks		
Code	Description		
Blank	No contacts on operator		
	Standard		
А	1 N.O 1 N.C. 1- 800T-XA on white side		
В	2 N.O 2 N.C. 2-800T-XAs — 1 on white side/1 on black side		
F	Pen TUFF (Low Voltage)		
AV	1 N.O 1 N.C. 1- 800T-XAV on white side		
BV	2 N.O 2 N.C. 2-800T-XAVs — 1 on white side/1 on black side		

f (cont'd)

Contact Blocks∆			
Code	Description		
Blank	No contacts		
	Class 1, Div. 2		
	Logic Reed		
AR	1 N.O 1 N.C. 1- 800T-XAR on white side		
BR	2 N.O 2 N.C. 2- 800T-XAR s — 1 on white side/1 on black side		
	Sealed Switch		
AP	1 N.O 1 N.C. 1- 800T-XAP on white side		
BP	2 N.O 2 N.C. 2-800T-XAPs — 1 on white side/1 on black side		
S	Stackable Sealed Switch		
AY	1 N.O 1 N.C. 1- 800T-XAY on white side		
BY	2 N.O 2 N.C. 2-800T-XAYs — 1 on white side/1 on black side		

- ★ One insert of each color (blue, green, orange, red, and yellow).
- ‡ Only available on Bul. 800T, Type 4/13 operators.
- § If an overlapping cam is required, consult your local distributor.
- Not available with wing levers.
- △ See Table 1 for cam selections and associated targets.

Table 1. Cam an	d Contact	Block	Functionality	Table
-----------------	-----------	-------	---------------	-------

	Conta		Contact	ts																				Ca	m (Cod	es																			
	Bloc Suffi Cod	x	Block Side	Circuits		KB7 Std		KA1		1	KA7		,	KC1			KC7		,	ŀ	CD7	7		KE7	7	ŀ	(Q1		KQ7		,	KR1			KR7			ı	KT [.]	I	ı	KT7	,	ŀ	(U7	
ſ		A_ A	White	Α	Х	0	0	Х	0	0	0	0	Х	0	0	Х	Х	0	0	0	0	Χ	Χ	0	0	Х	0	Х	Х	0	Χ	Χ	0	Χ	Χ	0	Χ	0	0	Χ	Χ	0	0	Χ	0	0
	⋪ │ ⋪ ∦	₹	vvnite	В	0	0	Х	0	Х	0	0	Х	0	0	Χ	0	0	Χ	0	0	Χ	0	0	Χ	Χ	0	Х	0	0	Х	0	0	Х	0	0	Χ	0	Χ	0	0	0	0	Χ	0	Χ	0
	III II ⊎		Disale	Α	Х	0	0	Х	0	0	0	0	Х	0	0	Х	Х	0	0	Χ	0	0	0	0	Χ	0	0	Х	Х	0	0	0	0	Χ	Χ	0	0	0	0	Χ	Х	0	0	0	0	Х
	ᆝᄔᆡ		Black	В	0	0	Х	0	Х	0	0	Х	0	Х	0	0	0	0	Χ	0	Χ	0	Х	Χ	0	0	Х	0	0	Х	0	Х	Х	0	0	Χ	Χ	Х	Х	0	0	Х	Χ	Χ	Χ	0
	i ↓ _		\A (I= : + =	Α	Х	0	0	Х	0	0	0	0	Х	0	0	Х	Х	0	0	0	0	Χ	Х	0	0	Χ	0	Х	Х	0	Х	Х	0	Χ	Χ	0	Χ	0	0	Χ	Х	0	0	Χ	0	0
			White	В	0	0	Х	0	Х	0	0	Х	0	0	Х	0	0	Χ	0	0	Χ	0	0	Χ	Χ	0	Х	0	0	Х	0	0	Х	0	0	Χ	0	Χ	0	0	0	0	Χ	0	Χ	0
	↓		Disale	Α	Х	0	0	Х	0	0	0	0	Х	0	0	Х	Х	0	0	Χ	0	0	0	0	Х	0	0	Х	Χ	0	0	0	0	Χ	Χ	0	0	0	0	Χ	Χ	0	0	0	0	Х
1			Black	В	О	О	Х	О	Х	О	О	Х	О	Х	0	0	О	0	Х	О	Х	0	Х	Х	О	0	Х	0	О	Х	0	Х	Х	О	0	Х	Х	Х	Х	0	0	Х	Х	Х	Х	0

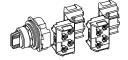
Note: X = Closed/O = Open

3-Position Selector Switch Devices, Non-Illuminated (Bul. 800T only)



3-Position Cylinder Lock Operator Cat. No. 800T-J41A

 $800 \quad \frac{\mathsf{T}}{a} \quad \frac{\mathsf{D}}{b} \quad \frac{\mathsf{J41}}{c} \quad \frac{\mathsf{KC1}}{d} \quad \frac{\mathsf{KC1}}{e} \quad \frac{\mathsf{A}}{f}$



a

	Protection Rating
Code	Description
Т	Metal, Type 4/13

b

	Finger-Safe Guards
Code	Description
Blank	No guards
С	Guards on terminals

C

	Key Removal Position
	Maintained
Code	Operator Function
J41	Key removal — left
J42	Key removal — center
J43	Key removal — right
J44	Key removal — all
J45	Key removal — left and center
J46	Key removal — right and left
J47	Key removal — right and center
S	Spring Return from Left
J50	Key removal — center
J52	Key removal — right
J51	Key removal — right and center

c (cont'd)

	Key Removal Position											
Sı	oring Return from Right											
Code Operator Function												
J69	Key removal — left											
J38	Key removal — center											
J73	Key removal — left and center											
Spring Return from Both												
J631 Key removal — center												

d

	Key Options for Cylinder Locks♣
Code	Key No.
Blank	D018 (standard key)
03	D020
04	D025
05	D335
06	D429
	ote: Refer to page 11 for ditional key option codes.

 ϵ

Cam Option‡											
Code	Description										
Blank	KB7 cam (std.)										
KA1	KA1 cam										
KA7	KA7 cam										
KC1	KC1 cam										
Note: See Table 1 on page 12 cam selections.											

e (cont'd)

	Cam Option‡
Code	Description
KC7	KC7 cam
KD7	KD7 cam
KE7	KE7 cam
KQ1	KQ1 cam
KQ7	KQ7 cam
KR1	KR1 cam
KR7	KR7 cam
KT1	KT1 cam
KT7	KT7 cam
KU7	KU7 cam
	_

f

	Contact Blocks
Code	Description
Blank	No contacts
	Standard
А	1 N.O 1 N.C. 1- 800T-XA on white side
В	2 N.O 2 N.C. 2- 800T-XA s — 1 on white side/1 on black side
F	PenTUFF (Low Voltage)
AV	1 N.O 1 N.C. 1- 800T-XAV on white side
BV	2 N.O 2 N.C. 2-800T-XAVs — 1 on white side/1 on black side

f (cont'd)

	r (cont a)
	Contact Blocks
	Class 1, Div. 2
	Logic Reed
Code	Description
AR	1 N.O 1 N.C. 1- 800T-XAR on white side
BR	2 N.O 2 N.C. 2-800T-XARs — 1 on white side/1 on black side
	Sealed Switch
AP	1 N.O 1 N.C. 1-800T-XAP on white side
BP	2 N.O 2 N.C. 2-800T-XAPs — 1 on white side/1 on black side
S	tackable Sealed Switch
AY	1 N.O 1 N.C. 1- 800T-XAY on white side
BY	2 N.O 2 N.C. 2-800T-XAYs — 1 on white side/1 on black side

- ‡ If an overlapping cam is required, consult your local Rockwell Automation sales office or Allen-Bradley distributor.
- ♣ Device supplied with 2 keys. Replacement key part no. for standard D018 key is X-181170. See page 10-46 for additional replacement key numbers.

Table 1. Cam and Contact Block Functionality Table

Contact	Contact																					Ca	m (Coc	des																				
Block Suffix Code	Block Side	Ckts	(Std.)			KA1			KA7		7	KC1		1	ı	(C7	7	ı	KD7	7	ŀ	(E7	7	ı	(Q1	1	ŀ	(Q	7	KR1			KR7			ı	KT1	I	ı	KT7	,	k	(U7		
, A_ A	\^/b:+o	Α	Х	0	0	Х	0	0	0	0	Χ	0	0	Χ	Х	0	0	0	0	Χ	Χ	0	0	Χ	0	Χ	Х	0	Х	Х	0	Х	Χ	0	Χ	0	0	Х	Χ	0	0	Х	0	0	
<u>│</u> ┪│┪╠┖┈╹	White	В	0	0	Х	0	Χ	0	0	Х	0	0	Х	0	0	Х	0	0	Х	0	0	Χ	Х	0	Х	0	0	Χ	0	0	Х	0	0	Χ	0	Χ	0	0	0	0	Χ	0	Х	0	
	Disale	Α	Χ	0	0	Х	0	0	0	0	Χ	0	0	Χ	Х	0	0	Χ	0	0	0	0	Χ	0	0	Х	Х	0	0	0	0	Х	Χ	0	0	0	0	Х	Χ	0	0	0	0	Χ	
	Black	В	0	0	Х	0	Х	0	0	Х	0	Χ	0	0	0	0	Χ	0	Χ	0	Χ	Χ	0	0	Χ	0	0	Χ	0	Χ	Х	0	0	Χ	Χ	Χ	Х	0	0	Х	Χ	Х	Χ	0	
	\	Α	Χ	0	0	Х	0	0	0	0	Χ	0	0	Χ	Х	0	0	0	0	Χ	Χ	0	0	Х	0	Х	Х	0	Х	Χ	0	Х	Χ	0	Χ	0	0	Х	Χ	0	0	Х	0	0	
	White	В	0	0	Х	0	Χ	0	0	Х	0	0	Х	0	0	Х	0	0	Χ	0	0	Χ	Χ	0	Χ	0	0	Χ	0	0	Х	0	0	Χ	0	Χ	0	0	0	0	Χ	0	Χ	0	
₩	Disale	Α	Χ	0	0	Χ	0	0	0	0	Х	0	0	Χ	Х	0	0	Χ	0	0	0	0	Х	0	0	Х	Х	0	0	0	0	Х	Χ	0	0	0	0	Х	Χ	0	0	0	0	Χ	
[Black	В	0	0	Х	0	Х	О	0	Х	О	Χ	О	0	О	О	Х	0	Х	О	Х	Х	0	0	Х	О	О	Χ	О	Х	Х	0	0	Х	Х	Х	Х	О	0	Х	Х	Х	Х	0	

4-Position Selector Switch Devices, Non-Illuminated



Standard Knob Operator Cat. No. 800T-N2KN4B

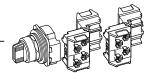


Knob Lever Operator Cat. No. 800T-N17KN4B



Standard Knob Operator Cat. No. 800H-NR2KF4AAXX

800



a

Protection Rating							
Code	Description						
Т	Metal, Type 4/13						
Н	Plastic, Type 4/4X/13						

b

Finger-Safe Guards							
Code	Description						
Blank	No guards						
С	Guards on terminals						

C

	Knob Insert Color	's
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
N	White	NR
NX	Packet of colored inserts★	NRX
Me	etal Wing Lever Co	olors
Code	Color	Code
NA	Red	_
NG	Grey	_

Operator Function and Knob Type							
Standard Knob							
Code Operator Function							
2	Maintained						
3	Spring return from position 1 to position 2						
9	Spring return from position 4 to position 3						
	Knob Lever♣						
Code	Operator Function						
17	Maintained						
29	Spring return from position 1 to position 2						
30	Spring return from position 4 to position 3						
	Metal Wing Lever♣						
Code	Operator Function						
11	Maintained						
13	Spring return from position 1 to position 2						
14	Spring return from position 4 to position 3						
14							

Cam Option∆						
Code	Description					
KF4	F cam					
KG4	G cam					
KK4◆	K cam					
KM4◆	M cam					
KP4	P cam					
KN4	Overlapping cam‡					

	<u> </u>	
	Contact Blocks∆	1
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
Blank	No contacts	Blank
	Standard	
В	2 N.O 2 N.C. 2- 800T-XA s — 1 on white side/ 1 on black side	AAXX
н	3 N.O 3 N.C. 3- 800T-XA s — 2 on white side/ 1 on black side	AAAX
С	4 N.O 4 N.C. 4- 800T-XA s — 2 on white side/ 2 on black side	AAAA

f (cont)

Contact Blocks								
800T Type 4/13	Description	800H Type 4/4X/13						
Code	Code							
Pe	en <i>TUFF</i> (Low Volta	age)						
BV	2 N.O 2 N.C.	FFXX						
HV	3 N.O 3 N.C.	FFFX						
CV	4 N.O 4 N.C.	FFFF						
Class 1, Div. 2								
	Logic Reed§							
BR	2 N.O 2 N.C.	TTXX						
HR	3 N.O 3 N.C.	TTTX						
CR	4 N.O 4 N.C.	TTTT						
	Sealed Switch§							
BP	2 N.O 2 N.C.	PPXX						
Sta	ckable Sealed Sw	itch 						
BY∆	2 N.O 2 N.C.	TTXX						
HYΔ	3 N.O 3 N.C.	TTTX						
CYΔ	4 N.O 4 N.C.	TTTT						

- ★ One insert of each color (blue, green, orange, red, and yellow).
 ‡ Overlapping cam. See Publication 800T-2.8 for overlap specifications.
 § Contact block mounting same as listed for standard and PenTUFF contact blocks.
- contact blocks.

 Only available on Bul. 800T, Type
- 4/13 operators.
- △ See Table 1 for proper cam/contact selection.
- Not available with wing levers.

Table 1. Car	n and Co	ontac	t Block	Functionality	Table

				Contact	ts											(Cam (Codes	3										
Contact Block Suffix Code			Block	rcuits		KI	- 4			K	3 4			KI	< 4			K۱	/ 14			KF	94			KN	14‡		
`	Juili	X 00	ue	Side	ö	•	(P)	(Ø	•	(P)	(1)	Ø	•	(P)	(1)	Ø	•	(P)	(1)	Ø	€	(P)	(1)	Ø	€	(P)	(Ø
				White	Α	Х	0	0	0	Χ	Х	0	0	0	0	Χ	Χ	Х	0	0	0	0	0	0	Χ	0	Χ	0	0
14	1	A	∱	vvriite	В	0	Х	0	0	0	0	Х	0	Х	Х	0	0	0	Х	Х	0	0	Х	0	0	0	0	0	Х
			B_ ₩	Disele	Α	0	0	0	Х	Х	0	0	0	Х	0	0	Х	0	0	0	Х	0	0	Х	Х	0	0	Х	0
		H_	٠	Black	В	0	0	Х	0	0	0	0	Х	0	Х	Х	0	0	Х	0	0	Х	0	0	0	Χ	0	0	0
li		\		White	Α	Х	0	0	0	Х	Х	0	0	0	0	Х	Х	Х	0	0	0	0	0	0	Х	0	Х	0	0
		•		vvriite	В	0	Х	0	0	0	0	Х	0	Х	Х	0	0	0	Х	Х	0	0	Х	0	0	0	0	0	Х
{			Dlask	Α	0	0	0	Х	Х	0	0	0	Х	0	0	Х	0	0	0	Х	0	0	Χ	Χ	0	0	Х	0	
'				Black	В	0	0	Χ	0	0	0	0	Х	0	Х	Χ	0	0	Х	0	0	Χ	0	0	0	Χ	0	0	0

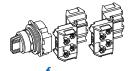
Note: X = Closed/O = Open

4-Position Selector Switch Devices, Non-Illuminated (800T only)



Cylinder Lock Operator Cat. No. 800T-N32KF4B

800



a

Protection Rating							
Code Description							
Т	Metal, Type 4/13						

b

Finger-Safe Guards								
Code	Description							
Blank	No guards							
С	Guards on terminals							

C

Key Removal Position and Operator Function						
Maintained						
Code	Operator Function					
N31	Key removal position 1					
N32	Key removal position 2					
N33	Key removal position 3					
N34	Key removal position 4					
N61	Key removal all positions					

Note: X	= Closed/O	= Open
---------	------------	--------

- Overlapping cam. One layer of contact blocks allowed, no stacking. See Publication 800T-2.8 for overlap specifications.
- § Contact block mounting same as listed for standard and PenTUFF contact blocks.
- ♣ Device supplied with 2 keys. Replacement key part no. for standard D018 key is X-181170. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for additional replacement key numbers.

c (cont'd)

Key Removal Position and Operator Function						
Spring Return From Position 1 to Position 2						
Code	Description					
N132	Key removal position 2					
N133	Key removal position 3					
N134	Key removal position 4					
N154	Key removal positions 2, 3, and 4					
F	Spring Return From Position 4 to Position 3					
Code	Operator Function					
N231	Key removal position 1					
N232	Key removal position 2					
N233	Key removal position 3					
N251	Key removal positions 1, 2, and 3					

Key Options for Cylinder Locks ♣							
	D Series						
Code	Key No.						
Blank	D018 (standard key)						
03	D020						
04	D025						
05	D335						
06 D429							
Note: Refer to page 11 for additional key option codes.							

е

	Cam Option						
Code	Description						
KF4	F cam						
KG4	G cam						
KK4	K cam						
KM4	M cam						
KP4	P cam						
KN4 Overlapping cam‡							
Note:	Note: See Table 1 for proper cam selection.						

	Contact Blocks
Code	Description
Blank	No contacts
	Standard
В	2 N.O 2 N.C. 2-800T-XAs — 1 on white side/1 on black side
Н	3 N.O 3 N.C. 3-800T-XAs — 2 on white side/1 on black side
С	4 N.O 4 N.C. 4-800T-XAs — 2 on white side/2 on black side
F	PenTUFF (Low Voltage)
BV	2 N.O 2 N.C. 2-800T-XAVs — 1 on white side/1 on black side
HV	3 N.O 3 N.C. 3-800T-XAVs — 2 on white side/1 on black side
CV	4 N.O 4 N.C. 4-800T-XAVs — 2 on white side/2 on black side
	Class 1, Div. 2
	Logic Reed§
BR	2 N.O 2 N.C.
HR	3 N.O 3 N.C.
CR	4 N.O 4 N.C.
	Sealed Switch§
BP	2 N.O 2 N.C.
	ackable Sealed Switch§
BY	2 N.O 2 N.C.
HY	3 N.O 3 N.C.
CY	4 N.O 4 N.C.

Note: Associated targets shown in Table 1.

Table 1. Cam and Contact Block Functionality Table

	_			Contact	its											Ca	am (Cod	es																	
l		act E		Block	rcui		KI	- 4			K	G4			KI	< 4			ΚN	/ 14			KI	94			KN	4‡								
l	Oui	IIX O	Jue	Side	ίΞ	\odot	(P)	(②	€	(P)	(Ø	€	(P)	(Ø	•	<u>(P)</u>	(Ø	•	(P)	(Ø	•	(P)	(Ø							
ſ				White	Α	Х	0	0	0	Х	Х	0	0	0	0	Х	Х	Х	0	0	0	0	0	0	Х	0	Х	0	0							
١	A	♦	♣ B_	vviiite	В	0	Х	0	0	0	0	Х	0	Х	Х	0	0	0	Χ	Х	0	0	Х	0	0	0	0	0	Х							
١	_	₽ _	L	Α	0	0	0	Х	Х	0	0	0	Х	0	0	Х	0	0	0	Х	0	0	Χ	Х	0	0	Χ	0								
١	C_	H_ *	١	,	*	'	*	*	٠	•	Black	В	0	0	Χ	0	0	0	0	Х	0	Х	Χ	0	0	Χ	0	0	Χ	0	0	0	Χ	0	0	0
١	ī	l ¥		White	Α	Х	0	0	0	Х	Х	0	0	0	0	Χ	Х	Х	0	0	0	0	0	0	Х	0	Χ	0	0							
١		'	, vvi	vvriite	В	0	Х	0	0	0	0	Х	0	Х	Х	0	0	0	Χ	Х	0	0	Х	0	0	0	0	0	Х							
١	†	Dlask	Α	0	0	0	Х	Х	0	0	0	Х	0	0	Х	0	0	0	Χ	0	0	Χ	Х	0	0	Χ	0									
l	•	` E		Black	В	0	0	Χ	0	0	0	0	Χ	0	Χ	Χ	0	0	Χ	0	0	Χ	0	0	0	Χ	0	0	0							

2-Position Knob/Lever Type Selector Switch Devices, Illuminated



Standard Knob Operator Cat. No. 800T-16HR2KB6AX



Knob Lever Operator
Cat. No. 800H-16HRR17KB6AX

800 _

1st Level



	Protection Rating
Code	Description
Т	Metal, Type 4/13
Н	Plastic, Type 4/4X/13

b

Finger-Safe Guards					
Code	Description				
Blank	No guards				
С	Guards on terminals				

С

	0				
	Power Module Type and Voltage				
Full	Voltage — Incandescent				
Code	Description				
12	12V AC/DC				
24	24V AC/DC				
48 48V AC/DC					
	Universal — LED				
2	12130V AC/DC				
	Transformer				
16	120V AC 50/60 Hz				
26	240V AC 50/60 Hz				

For other voltages, please consult your local Rockwell Automation sales office or Allen-Bradley distributor.

No. of Positions							
Bul. 800T Type 4/13	Description	Bul. 800H Type 4/4X/13					
Code		Code					
Н	2-position	HR					

	Knob Color						
Code	Color						
Α	Amber						
В	Blue						
С	Clear						
G	Green						
R	Red						
W	White						
Х	No knob						

		Illumination Options
Co	de	Description
Bla	nk	Incandescent
Н		LED

Table 1. Selector Switch Cam **Targets**

Cam Description (2-Position)				
Target				
\bigcirc	\bigcirc	Contact Block Code▲		
0	Х	D, H, V, R, 5		
Х	0	E, U, W, S, 6		

X = Closed/O = Open

Operator Function and Knob Type		
Standard Knob or No Knob		
Code Operator Function		
2 Maintained		
4 Spring return from left		
5	5 Spring return from right	
Knob Lever		
17 Maintained		
18 Spring return from left		
19	Spring return from right	

Cam Options			
	2-Position		
Code Operator Function			
KB6 Maintained cam			
KL8	Spring return cam		

Table 2. Contact Block Code Reduction Rules

Contact Block Substitution		
Combination	Code	
Standard		
D + E	А	
D + D	М	
E + E	N	

Contact Blocks∆			
Code	Code Description		
Blank (both pos.)	No contacts		
	Standard		
D	1 N.O.		
Е	1 N.C.		
Α	1 N.O 1 N.C.		
Х	No contacts in this position		
F	PenTUFF (Low Voltage)		
Н	1 N.O.		
U	1 N.C.		
F	1 N.O 1 N.C.		
	Class 1, Div. 2		
	Logic Reed		
V	1 N.O.		
W	1 N.C.		
Т	1 N.O 1 N.C.		
	Sealed Switch		
R	1 N.O.		
S	1 N.C.		
Р	1 N.O 1 N.C.		
S	Stackable Sealed Switch		
5	1 N.O.		
6	1 N.C.		
7	1 N.O 1 N.C.		

- Δ Contact blocks used on white side only.
- ▲ Target tables are reversed for spring return from left operators.

3-Position Knob/Lever Type Selector Switch Devices, Illuminated



Standard Knob Operator Cat. No. 800T-16JR2KB7AX



Standard Knob Operator
Cat. No. 800H-16JRR2KB7AX

800

KB7

1st Level



a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

С

Power Module Type and Voltage		
Full Voltage — Incandescent		
Code Description		
12	12V AC/DC	
24	24V AC/DC	
48	48V AC/DC	
Universal — LED		
2 12130V AC/DC		
Transformer		
16	120V AC 50/60 Hz	
26	240V AC 50/60 Hz	

For other voltages, please consult your local Rockwell Automation sales office or Allen-Bradley distributor.

d

No. of Positions		
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
J	3-position	JR

Knob Color		
Code	Color	
Α	Amber	
В	Blue	
С	Clear	
G	Green	
R	Red	
W	White	
Х	No knob	

Illumination Options		
Code	Description	
Blank	Incandescent	
Н	LED§	

g

Operator Function and Knob Type			
Sta	Standard Knob or No Knob		
Code	Operator Function		
2	Maintained		
4	Spring return from left		
5	Spring return from right		
91	Spring return from both		
Knob Lever			
Code	Operator Function		
17	Maintained		
18	Spring return from left		
19	Spring return from right		
20	Spring return from both		

Cam Options			
	3-Position		
Code	Operator Function		
KB7	B7 cam		
KC1	C1 cam		
KC7	C7 cam		
KE7	E7 cam		
KQ1	Q1 cam		
KT1	T1 cam		

i, j

	· , ,	
Contact Blocks.		
Code	Description	
Blank (both pos.)	No contacts	

i, j (cont'd)

	Contact Blocks.		
Code	Description		
	Standard		
Α	1 N.O 1 N.C.		
Χ	No contacts in this position		
F	PenTUFF (Low Voltage)		
F	1 N.O 1 N.C.		
Class 1, Div. 2			
	Logic Reed		
Т	1 N.O 1 N.C.		
	Sealed Switch		
Р	1 N.O 1 N.C.		
S	tackable Sealed Switch		
7	1 N.O 1 N.C.		

Table	4	Selector	Switch	Cam	Targete

Target			Cam Description (3-Position)					
		\bigcirc	KB7	KC1	KC7	KE7	KQ1	KT1
Х	0	0	D, H, V, R, 5	_	D, H, V, R, 5	D, H, V	_	E, U, W, S, 6
0	Х	0	_	E, U, W, S, 6	E, U, W, S, 6	_	E, U, W, S, 6	_
0	0	Х	E, U, W, S, 6	D, H, V, R, 5	_	_	_	D, H, V, R, 5
Х	Х	0	G, I	J, Q	_	_	_	J, Q
0	X	Х	J,Q	_	J,Q	E, U, W, S, 6	_	_
Х	0	Х	_	G,I	G,I	_	D, H, V, R, 5	_

[§] LEDs available in red, green, amber, blue, and white. White LEDs only available in 6V, 24V, 120V, and 130V full voltage and all transformer units. 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.

Contact blocks used on white side only.

Pilot Light Devices



Transformer Type Pilot Light Cat. No. 800T-P16R



Push-to-Test Pilot Light Cat. No. 800T-PT16R

800

(Push-to-Test) **AR**

a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

C

Power Module Type			
800T Type 4/13	Description	800H Type 4/4X/13	
Code		Code	
Р	Transformer (or dual input)	PR	
Q	Full voltage/ Universal	QR	

	Lamp Test Options
Code	Description
Blank	No test option∇
Т	Push-to-test
D	Dual input — diode∆.
DT Dual input — transformer relay	
Note: Push-to-test supplied with	

factory jumpered contact block.

е

Illumination Options		
Code	Description	
Blank	Incandescent	
Н	LED.	

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				
12	12V AC/DC				
24	24V AC/DC				
48	48V AC/DC				
10	120V AC/DC				
00	0.40\/.40/D0				

12	121710750		
24	24V AC/DC		
48	48V AC/DC		
10	120V AC/DC		
20	240V AC/DC		
Universal — LED			
2 12130V AC/DC			
Dual Input			
16	120V AC		
24	24V AC/DC		

16	120V AC
24	24V AC/DC
24	(Dual input diode only)

- ∇ Non-push-to-test pilot lights using the universal LED option cannot be ordered as Bul. 800HC or 800TC. The terminals are finger-safe as standard.
- Δ Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
- ▲ Dual input devices (diode or transformer type) cannot be ordered as Bul. 800HC or 800TC. Finger-safe terminal guards are not available.
- * LED illumination option is not available with diode type dual input.
- # Glass lens available on 800T pilot lights only. Not available on push-to-test units.

Code	ns Color Color	Glass
Code	Color	
	#	
Blank	No lens	Blank
А	Amber	D
В	Blue	
С	Clear	F
G	Green	Н
R	Red	J
W	White	K

	п				
	Contact Blocks				
(F	Push-to-test units only)				
Code	Description				
	Standard				
Blank	1 N.O 1 N.C.				
F	PenTUFF (Low Voltage)				
AV 1 N.O 1 N.C.					
	Class 1, Div. 2				
	Logic Reed				
AR	1 N.O 1 N.C.				
	Sealed Switch				
AP	1 N.O 1 N.C.				
S	tackable Sealed Switch				
AY	1 N.O 1 N.C.				

2-Position Push-Pull and Push-Pull/Twist Release Devices, Non-Illuminated

Note: A jumbo or large legend plate is recommended, if space allows.



2-Position Push-Pull Cat. No. 800T-FX6D4



2-Position Metal Push-Pull Cat. No. 800TC-FXLE6D4S

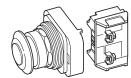


2-Position Push-Pull / Twist Cat. No. 800T-FXT6D4



2-Position Push-Pull / Twist Cat. No. 800H-FRXT6D4

800



a

Protection Rating			
Code	Description		
Т	Metal, Type 4/13		
Н	Plastic, Type 4/4X/13		

Finger-Safe Guards			
Code	Description		
Blank	No guards		
С	Guards on terminals		

C

Head Type §				
800T Type 4/13	Description	800H Type 4/4X/13		
Code		Code		
FX	Mushroom head (push-pull)	_		
FXC	90 mm anodized aluminum head (push-pull)	-		
FXJ	Jumbo mushroom head (push-pull)	_		
FXJE	Jumbo mushroom head (push-pull) with "E-Stop"	_		
FXL	63 mm anodized aluminum head (push-pull)	-		
FXLE	63 mm anodized aluminum head (push-pull) with "E-Stop"	_		
FXT	Push-pull/twist-to-release	FRXT		
FXJT	Jumbo head push-pull with twist-to-release	FRXJT		

d

Color Cap					
Code	Color				
Blank	No cap ♣				
1	Green				
2	Black				
3	Orange				
4	Grey				
5	White				
6	Red				
7	Blue				
9	Yellow				

е

Contact Block(s)				
Code	Operator Position			
			Description	
	Out	In		
Blank	_	_	No contacts on operator	
		Standa	ard	
D1	0	Х	1 N.O.	
D2	Х	0	1 N.C.	
D4	Х	0	1 N.C.L.B.★	
А	O X	X O	1 N.O 1 N.C.	
A1	O X	X O	1 N.O 1 N.C.L.B.★	
A5	X X	0	2 N.C.L.B. ∇★	

_	(cont'd)	١.
$\boldsymbol{\rho}$	CONTO	
	COIIL G	٠.

Contact Block(s)				
	Operator	Position		
Code	Out	In	Description	
Blank	_	_	No contacts	
	Pen	TUFF (Lov	v Voltage)	
D1V	0	Х	1 N.O.	
D2V	Х	0	1 N.C.	
D4V	Х	0	1 N.C.L.B.	
AV	O X X O		1 N.O 1 N.C.	
	Class 1, Div. 2			
		Logic R	eed	
D1R	0	Х	1 N.O.	
D2R	Χ	0	1 N.C.	
AR	O X	X O	1 N.O 1 N.C.	
Sealed Switch				
D1P	0	Х	1 N.O.	
D2P	Χ	0	1 N.C.	
AP	O X	X O	1 N.O. 1 N.C.	
Stackable Sealed Switch				
D1Y	0	Х	1 N.O.	
D2Y	Х	0	1 N.C.	
AY	O X	X O	1 N.O 1 N.C.	

Note: X = Closed/O = Open

- *Normally closed late break contact. When button is pushed from the OUT to IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN in the OUT position, the electrical contacts change state before the mechanical detent occurs.

 § Devices with N.C.L.B. contacts meet EN ISO 13850 and IEC 60947-5-5 standards for emergency stop applications.

- Not valid with head Type J or JT.
 ▼ Two 800T-XD4 contact blocks supplied.

3-Position Push-Pull Devices, Non-Illuminated

Note: A jumbo or large legend plate is recommended, if space allows.



3-Position Push-Pull Cat. No. 800T-FXM6A7

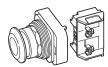


3-Position Push-Pull Cat. No. 800H-FRXM6A7

800 <u>T</u>

____1

 $-\frac{A7}{f}$



а

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

C

	Head Type	
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
FX	Mushroom head (push-pull)	FRX
FXC	90 mm anodized aluminum head (push-pull)	-
FXJ	Jumbo mushroom head (push-pull)	FRXJ
FXL	63 mm anodized aluminum head (push-pull)	_

d

		<u> </u>		
Operator Function				
	Operator Position			
Code				
	Out	Center	In	
М	Momentary	Maintained	Maintained	
N	Momentary	Maintained	Momentary	

е

Color Cap				
Code	Color			
Blank	No cap §			
1	Green			
2	Black			
3	Orange			
4	Grey			
5	White			
6	Red			
7	Blue			
9	Yellow			

f

Contact Block(s)					
	Operator Position			(-)	
Code				Description	
	Out	Ctr.	In		
Blank	_	_	_	No contacts	
		S	tandar	d	
А	O X	0	X O	1 N.O 1 N.C.	
A1	O X	O X	X O	1 N.O 1 N.C.L.B.	
A7	X X	O X	0	1 N.C 1 N.C.L.B.	
В6	X X X	O X O X	0 0 0	2 N.C 2 N.C.L.B.	
	PenTUFF (Low Voltage)				
AV	O X	0	X O	1 N.O 1 N.C.	

f (cont'd)

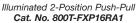
		•		•		
Contact Block(s)						
	Opera	ator Po	sition			
Code				Description		
	Out	Ctr.	In			
	Class 1, Div. 2					
	Logic Reed					
AR	O X	0	X O	1 N.O 1 N.C.		
	Sealed Switch					
AP	O X	0	X O	1 N.O 1 N.C.		
Stackable Sealed Switch						
AY	O X	0	X O	1 N.O 1 N.C.		

Note: X = Closed/O = Open § Not valid with head Type J.

2-Position Push-Pull and Push-Pull/Twist Release Devices, Illuminated

Note: A jumbo or large legend plate is recommended, if space allows.







2-Position Push-Pull
Cat. No. 800T-FXJEP16RA1



Illuminated 2-Position Push-Pull/Twist Cat. No. 800T-FXTP16RA1



Illuminated 2-Position Push-Pull/Twist Cat. No. 800H-FRXTP16RA1

800 T

T

H 16

6 F

_____A1



a

Protection Rating		
Code	Description	
Т	Metal, Type 4/13	
Н	Plastic, Type 4/4X/13	

b

Finger-Safe Guards		
Code	Description	
Blank	No guards	
С	Guards on terminals	

C

Head Type 🌲				
800T Type 4/13	Description	800H Type 4/4X/13		
Code		Code		
FX	Mushroom head	FRX		
FXJ	Jumbo mushroom	FRXJ		
FXJE	Jumbo mushroom (push-pull) with "E-Stop"	-		

d

Operator Function		
Code	Description	
Blank	Push-pull #	
Т	Push-pull/twist	

е

Illumination Options		
Transformer		
Code	Code Description	
Р	Incandescent	
PH	LED	
Full Voltage		
Q	Incandescent	
QH	Universal LED	
Dual Input		
D	Diode type 🛦	
DT	Transformer — relay type	
DTH	Transformer — relay type LED	

f			
Voltage §			
Transformer			
Code	Description		
16	120V AC 50/60 Hz		
26	240V AC 50/60 Hz		
	Full Voltage		
24	24V AC/DC		
10	120V AC/DC		
20	240V AC/DC		
Universal LED			
2	12130V AC/DC		
	Dual Input		
16	120V AC		
24	24V AC/DC (dual input diode only)		

g

Color Cap		
Code	Color	
Х	No cap (not valid with head Type J)	
Α	Amber	
В	Blue	
С	Clear	
G	Green	
R	Red	
W	White	
L		

h

Contact N.O. N.C./ N.C.L.B. Contact Blocks Code Description Blank No contacts		
N.C./ N.C.L.B. X O Contact Blocks Code Description		
N.C.L.B. Contact Blocks Code Description		
Code Description		
Blank No contacts		
Standard		
D1 1 N.O.		
D2 1 N.C.		
D4 1 N.C.L.B.		
A 1 N.O 1 N.C.		
A1 1 N.O 1 N.C.L.B.		
A5 2 N.C.L.B. ∇		
PenTUFF (Low Voltage)		
D1V 1 N.O.		
D2V 1 N.C.		
D4V 1 N.C.L.B.		
AV 1 N.O 1 N.C.		

h (cont'd)

Contact Blocks			
Code	Description		
	Class 1, Div. 2		
Logic Reed			
D1R	1 N.O.		
D2R	1 N.C.		
AR	1 N.O 1 N.C.		
Sealed Switch			
D1P	1 N.O.		
D2P	1 N.C.		
AP	1 N.O 1 N.C.		
Stackable Sealed Switch			
D1Y	1 N.O.		
D2Y	1 N.C.		
AY	1 N.O 1 N.C.		

- See page 18 for additional voltage code options.
 Devices with N.C.L.B. contacts
- Devices with N.C.L.B. contacts meet EN ISO 13850 and IEC 60947-5-5 standards for emergency stop applications.
- # Push-Pull is available only with Bul. 800T.
- Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
- ∇ Two stacked 800T-XD4 contact blocks supplied.

3-Position Push-Pull Devices, Illuminated



Illuminated 3-Position Push-Pull Cat. No. 800T-FXMP16RA7



Illuminated 3-Position Push-Pull Cat. No. 800H-FRXMP16A7



а

Protection Rating	
Code	Description
Т	Metal, Type 4/13
Н	Plastic, Type 4/4X/13

b

Finger-Safe Guards		
Code Description		
Blank	No guards	
С	Guards on terminals	

С

Head Type		
800T Type 4/13	Description	800H Type 4/4X/13
Code		Code
FX	Mushroom head	FRX
FXJ	Jumbo mushroom	FRXJ

Operator Function			
Code	Operator Position		
	Out	Ctr.	In
М	Mom.	Main.	Main.
N	Mom.	Main.	Mom.
Mom. – Momentary, Main. – Maintained.			

<u> </u>		
Illumination Options		
Transformer		
Code	Description	
Р	Incandescent	
PH	LED	
Full Voltage		
Q	Incandescent	
QH	Universal LED	
Dual Input		
D	Diode type 🛦	
DT	Transformer — relay type	
DTH	Transformer — relay LED	

Voltage *		
Transformer		
Code	Description	
16	120V AC 50/60 Hz	
26	240V AC 50/60 Hz	
Full Voltage		
24	24V AC/DC	
10	120V AC/DC	
20	240V AC/DC	
Universal LED		
2	12130V AC/DC	
Dual Input		
16	120V AC	
24	24V AC/DC #	

9		
	Color Cap	
Code	Color	
Х	No cap (not valid with head Type J)	
Α	Amber	
В	Blue	
С	Clear	
G	Green	
R	Red	
W	White	

Target			
Contact			
N.O.	0	0	Х
N.C.	Х	0	0
N.C.L.B.	Х	Х	0
	Contact	Blocks	
Code	D	escriptio	n
Blank	No cont	acts on c	perator
	Stan	dard	
Α	1 N	I.O 1 N	.C.
A1	1 N.C) 1 N.C	L.B.
A7	1 N.C	C 1 N.C	L.B.
PenTUFF (Low Voltage)		ge)	
AV	1 N	I.O 1 N	.C.
Class 1, Div. 2			
Logic Reed			
AR	1 N	I.O 1 N	.C.
Sealed Switch			
AP	1 N	I.O 1 N	.C.
Stackable Sealed Switch		itch	
AY	1 N	I.O 1 N	.C.

- See page 18 (Table f) for additional voltage code options.
 Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs and neon indicators.

 # Dual input diode only.

Cluster Pilot Light Devices (Bul. 800T Only)★



Color Cap Only With Lamps Cat. No. 800T-N249



Complete Unit Cat. No. 800T-PC416

16 d

W е

Position 1

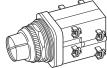
R

Position 2

X g

Position 3

R h Position 4



а

Finger-Safe Guards	
Code	Description
Blank	No guards
С	Guards on terminals

b

Power Module Type	
Code	Description
QC	Full voltage
PC	Transformer

С	
Illum	ination Options and No. of Units
	Incandescent
Code	Description
2	2 unit cluster
3	3 unit cluster
4	4 unit cluster
LED‡§ ♣ ∆	
L2	2 unit cluster
L3	3 unit cluster

Voltage Options	
Full Voltage	
Description	
6V AC/DC	
12V AC/DC	
24V AC/DC	
Transformer	
120V AC, 50/60 Hz	

d

e, f, g, h		
С	olor Options	
Code	Color	
Blank (All 4 Positions)	Standard unit◆	
Χ	No color	
Α	Amber	
В	Blue	
С	Clear	
G	Green	
R	Red	
W	White	

Custom Lens Caps for Cluster Pilot Lights

$$800T - N249$$

C

Position 1

L4

b

G d

Position 2

4 unit cluster

A е

Position 3

Position 4



а

	No. of Lamps/Voltage	
	Transformer	
Code	Description	
N50	4 lamps, 120V AC, 50/60 Hz	
N51	3 lamps, 120V AC, 50/60 Hz	
N52	2 lamps, 120V AC, 50/60 Hz	
N249	4 lamps, 6V AC/DC	
N250	4 lamps, 12V AC/DC	
N251	4 lamps, 24V AC/DC	
N252	3 lamps, 6V AC/DC	
N253	3 lamps, 12V AC/DC	
N254	3 lamps, 24V AC/DC	
N255	2 lamps, 6V AC/DC	
N256	2 lamps, 12V AC/DC	
N257	2 lamps, 24V AC/DC	

b

	Illumination Options
Code	Description
Blank	Incandescent
L	LED‡

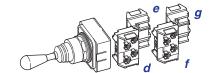
	Illumination Options
Э	Description
(Incandescent
	LED‡

c, u, e, i	
Code	Description
Blank (All Positions)	Standard unit◆
Α	Amber
В	Blue
С	Clear
G	Green
R	Red
W	White
X	No color

- ★ Rated Type 4/13 indoor only.
- ‡ LEDs are available in red, green and amber only; lens color matches LED color. Exception: the white lens is supplied with an amber LED.
- § White lenses use amber LEDs.

- LEDs could be adversely affected when used with solid-state outputs.
 6V and 12V are positive polarity. 24V LEDs are bipolar.
 Consult your local Rockwell Automation sales office or Allen-Bradley distributor for standard unit colors.

1-, 2-, 3-, 4-Way Toggle Switches (Bul. 800T only)



a

Finger-Safe Guards	
Code	Description
Blank	No guards
С	Guards on terminals

b

	Operator Type
Code	Description
T1	1-way toggle
T2	2-way toggle
T3	3-way toggle
T4	4-way toggle

Table 1. Contact Block Code

Contact Block Substitution								
Combination	Code							
Standard								
D+E A								
D + D	*	М						
E + E		N						
J + D	В							
J + E		С						

Table 2. 1-2-3-4 Way Toggle **Switch Cam Targets**

	Con	tact Conf	iguration	ı	Suffix Code			
		Positio	on		Contact/Side			
Up	Up Left Center Right Down				Right Side	Left Side		
0	Х	0	0	0	D, H, V, R, 5	_		
0	0	0	0	Х	E, U, W, S, 6	_		
Х	0	Х	Х	Х	J, Q	_		
Х	Х	Х	Х	0	G, I	_		
Х	0	0	0	0	_	E, U, W, S, 6		
0	0	0	Х	0	_	D, H, V, R, 5		
0	Х	Х	Х	Х	_	G, I		
Х	Х	Х	0	Х	_	J, Q		

C

Lever Movement and Function									
Time	Fur	ctio	n	Description					
Type	С	ode		1	←	\rightarrow	\downarrow		
	1	Α	1	М	_	_	_		
	'	A	2	S	_	_	-		
		В	1	_	М	_	_		
1-	←	ь	2	_	S	_	_		
Way		С	1	_	_	М	-		
	\rightarrow	C	2	_	_	S	_		
		D	1	_	_	_	М		
	1	ט	2	_	_	_	S		
			1	М	М	_	_		
	E	¥	2	М	S	_	_		
	<u>-</u>	_	3	S	S	_	_		
2-			4	S	М	_	_		
2- Way	_		1	_	М	М	_		
	F		2	_	М	S	_		
			3	_	S	S	_		
	-		4	_	S	М	_		
			1	_	_	М	М		
	√ G		2	_	_	М	S		
			3	_	_	S	S		
2-			4	_	_	S	М		
2- Way			1	М	_	_	М		
	A		2	М	_	_	S		
	\forall	Н	3	S	_	_	S		
	,		4	S	_	_	М		
			1	М	_	М	_		
	A :	ı	2	М	_	S	_		
	Ľ	-	3	S	_	S	_		
2-			4	S	_	М			
Way			1	_	М	_	М		
	◀-	7	2	_	М	_	S		
	ľ	` ₩	3	_	S	_	S		
			4	_	S	_	М		

c (cont'd)											
Lever Movement and Function Type Function Description											
Tuno	Functio	n	Description								
Type	Code		1	\leftarrow	\rightarrow	\downarrow					
		1	М	М	М	_					
		2	М	М	S	_					
		3	М	S	М	_					
	1	4	М	S	S	_					
		5	S	М	М	_					
	_	6	S	S	М	_					
		7	S	М	S	_					
3-		8	S	S	S	_					
Way		1	_	М	М	M					
		2	_	М	М	S					
	∢. ►	3	_	М	S	M					
	¥	4	_	M	S	S					
	Ń	5	_	S	M	M					
		6	_	S	S	M					
		7	_	S	М	S					
		8		5	S	S					
3-		1	M	_	M	M					
		2	M	_	M	S					
	4	3	M	_	S						
	₽ ►	5	M S	_	S	S					
	V P	6	S	_	M S	M					
		7	S	_	M	M S					
		8	S	_	S	S					
ડ- Way		1	M	M	3	M					
vvay		2	M	M	\equiv	S					
		3	M	S		M					
	A	4	M	S	_	S					
	₹	5	S	M		M					
	Q	6	S	S	_	M					
		7	S	M	_	S					
		8	S	S	_	S					
		1	М	M	М	М					
		2	М	М	М	S					
	A	3	М	М	S	М					
	◆ Î →	4	М	М	S	S					
	\ \	5	М	S	М	М					
		6	М	S	S	М					
		7	М	S	М	S					
4-	R	8	М	S	S	S					
Way		1	S	М	М	М					
		2	S	М	М	S					
	A	3	S	М	S	М					
	◄ [►	4	S	М	S	S					
	▼	5	S	S	М	М					
		6	S	S	S	М					
		7	S	S	М	S					
	Т	8	S	S	S	S					
1-4	NA NA-:										

Note: M = Maintained,

S = Spring Return

★ XA2 and XA2R contact blocks cannot be stacked upon, but they can stack on other contact blocks.

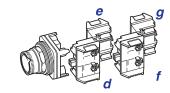
d, e, f, g

u, e, ı, y								
Co	ontact Blocks							
Code	Description							
Blank (all pos.)	No contacts							
	Standard							
D	1 N.O.							
Е	1 N.C.							
G	1 N.O.E.M.							
J	1 N.C.L.B.							
Α	1 N.O 1 N.C.							
Χ	No contacts in this position							
Pen <i>TL</i>	IFF (Low Voltage)							
Н	1 N.O.							
U	1 N.C.							
I	1 N.O.E.M.							
Q	1 N.C.L.B.							
F	1 N.O 1 N.C.							
С	lass 1, Div. 2							
	Logic Reed							
V	1 N.O.							
W	1 N.C.							
T	1 N.O 1 N.C.							
S	ealed Switch							
R	1 N.O.							
S	1 N.C.							
Р	1 N.O 1 N.C.							
Stacka	ble Sealed Switch							
5	1 N.O.							
6	1 N.C.							
7	1 N.O 1 N.C.							

Selector Push Button Devices (Bul. 800T only)



Selector Push Button Cat. No. 800T-K2AAXX



а

	Finger-Safe Guards						
Code	Description						
Blank	No guards						
С	Guards on terminals						

b

	Cam and Head Type						
Code	Description						
K	A cam with flush operator						
KA	A cam with extended operator						
KB	B cam with flush operator						
KC	C cam with flush operator						
KD	D cam with flush operator						
KE	E cam with flush operator						
No	of each cam						

C

	Color Cap
Code	Color
1	Green
2	Black
6	Red

d, e, f, g

	Contact Blocks							
Code	Description							
Blank (all pos.)	No contacts on operator							
	Standard							
D	1 N.O.							
Е	1 N.C.							
G	1 N.O.E.M.							
J	1 N.C.L.B.							
Α	1 N.O 1 N.C.							
Χ	No contacts in this position							
	PenTUFF (Low Voltage)							
Н	1 N.O.							
U	1 N.C.							
- 1	1 N.O.E.M.							
Q	1 N.C.L.B.							
F	1 N.O 1 N.C.							

d, e, f, g (cont'd)

	Contact Blocks								
Code	Description								
	Class 1, Div. 2								
	Logic Reed								
V	1 N.O.								
W	1 N.C.								
Т	1 N.O 1 N.C.								
	Sealed Switch								
R	1 N.O.								
S	1 N.C.								
Р	1 N.O 1 N.C.								
	Stackable Sealed Switch								
5	1 N.O.								
6	1 N.C.								
7	1 N.O 1 N.C.								

Table 2. Contact Block Reduction Rules

Contact Block Substitution							
Stan	dard						
Combination	Substitute Code						
D + E	A						
D + D	M★						
E + E	N						
J + D	В						
J + E	С						

Table 1. Selector Push Button Cam Targets (Note: X = Closed/O = Open)

	• • • • • • • • • • • • • • • • • • • •												
	Sleeve	Position	Cam Description										
			KA/K KB		В	кс		KD		к	Έ		
Button	Button	Button	Button					Contact E	Block Side				
Free	Pressed	Free	Pressed	Right	Left								
0	0	0	Х	_	_	_	D, H, V, R, 5	_	D, H, V, R, 5	_	_	_	_
0	0	Х	0	E, U, W, S, 6	E, U, W, S, 6	_	_	_	_	_	E, U, W, S, 6	_	E, U, W, S, 6
0	0	Х	Х	_	_	_	_	_	_	E, U, W, S, 6	_	E, U, W, S, 6	_
0	Х	0	0	_	_	_	_	D, H, V, R, 5	_	D, H, V, R, 5	_	D, H, V, R, 5	_
0	Х	0	Х	D, H, V, R, 5	D, H, V, R, 5	D, H, V, R, 5	_	_	_	_	D, H, V, R, 5	_	D, H, V, R, 5
0	Х	Х	0	_	_	_	_	_	_	_	_	_	_
Х	0	Х	0	J or Q	J or Q	E, U, W, S, 6	_	_	_	_	J or Q	_	J or Q
Х	Х	0	0	_	_	_	_	_	_	G or I	_	G or I	_
Х	Х	0	Х	G or I	G or I	_	_	_	_	_	G or I	_	G or I
Х	0	Х	Х	_	_	_	_	E, U, W, S, 6	_	J or Q	_	J or Q	_
Х	Х	Х	0	_	_	_	E, U, W, S, 6	_	E, U, W, S, 6	_	_	_	_

Momentary Contact Flip Lever Devices (Bul. 800H Type 4/4X only)



Flip Lever Operator Cat. No. 800H-WK42B



Flip Lever Operator Cat. No. 800H-WK61B

800H $\frac{}{}$ - WK $\frac{}{}$ $\frac{}{}$ $\frac{}{}$ A

a

Finger-Safe Guards							
Code	Description						
Blank	No guards						
С	Guards on terminals						

b

Operator Color							
Code	Description						
4	Grey						
6	Red						

C

Operator Types								
Code	Description	Code	Description					
_	Blank	20	OUT					
1	STOP	21	RAISE					
2	START	22	RESET					
3	CLOSE	23	REVERSE					
4	DOWN	24	RIGHT					
5	EMERG. STOP	25	RUN					
6	FAST	26	SECOND SPEED					
7	FORWARD	27	SLOW					
8	FULL SPEED	28	TEST					
9	HIGH	29	THIRD SPEED					
10	IN	30	UP					
11	INCH	31	0					
12	JOG	32	I					
13	LEFT	33	AVANT					
14	LOW	34	OUVRIR					
15	LOW SPEED	35	ARRIER					
16	LOWER	36	MARCHE					
17	OFF	37	ESSAI					
18	ON	38	ARRET					
19	OPEN							

Contact Block(s)						
Code	Description					
Blank No contacts						
Standard						
D1	1 N.O.					
D2	1 N.C.					
D3	1 N.O.E.M.					
D4	1 N.C.L.B.					
D5	1 N.O. (Mini)					
D6	1 N.C. (Mini)					
A1	1 N.C.L.B 1 N.O.					
A2	2 N.O.					
A4	2 N.C.					
A7	1 N.C.L.B 1 N.C.					
Α	1 N.O 1 N.C.					
В	2 N.O 2 N.C.					
	Class 1, Div. 2					
	Sealed Switch					
D1P	1 N.O.					
D2P	1 N.C.					
AP	1 N.O 1 N.C.					
BP	2 N.O 2 N.C					
	Stackable Sealed Switch					
D1Y	1 N.O.					
D2Y	1 N.C.					
A2Y	2 N.O.					
A4Y	2 N.C.					
AY	1 N.O 1 N.C.					
BY	2 N.O 2 N.C					

d (cont'd)

	Contact Block(s)						
Code	ode Description						
PenTUFF (Low Voltage)							
D1V	1 N.O.						
D2V	1 N.C.						
D3V	1 N.O.E.M.						
D4V	1 N.C.L.B.						
AV	1 N.O 1 N.C.						
BV	2 N.O 2 N.C.						
	Class 1, Div. 2						
	Logic Reed						
D1R	1 N.O.						
D2R	1 N.C.						
A2R	2 N.O.§						
A4R	2 N.C.						
AR	1 N.O 1 N.C.						
BR	2 N.O 2 N.C.						

Protective Boot Application Information

- Chlorosulfonated Polyethylene (synthetic rubber)

Very resistant to attack by oxidizing chemicals such as concentrated sulfuric acid and hypochlorite solutions. Also resistant to attack by oils and performs well in a wide range of other chemicals and solvents. Good flex and high impact resistance. This is the standard boot material supplied with 800H NEMA Type 4/4X push buttons unless otherwise specified.

_ Silicone

Superior high temperature resistance. Particularly suited for use where organic acids or vegetable oils may be present. Also superior resistance to the effects of outdoor use, such as oxygen, ozone, and weather.

- Urethane

Excellent resistance to mechanical failure. Most durable boot material. Particularly suited for use where lubricating oils and automotive fuels may be present. Also well-suited for outdoor use.

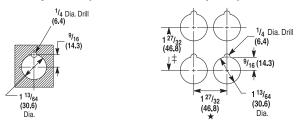
- Ethylene-propylene

Particularly suited for high temperature applications. Resistant to attack by many acids and alkalies, detergents, phosphate esters, ketones, alcohols, and glycols. Outstanding service in areas with hot water and steam wash downs.

Approximate Dimensions

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

Mounting Instructions for Push Buttons with Shallow Blocks, Mini Blocks, Logic Reed Blocks, Sealed Switch Blocks, and Time Delay Blocks (see footnotes for exceptions)

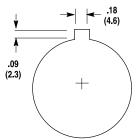


- ★ Change to 2-1/4 in. (57.2 mm) for transformer type pilot light, push-to-test pilot lights, illuminated selector switches, and all push-pull buttons.
 Note: Large legend plate requires minimum horizontal spacing of 2-15/32 in. (62.7 mm).
- ‡ Vertical minimum spacing dimension changes for the following legend plates: jumbo 2-15/32 in. (62.7 mm); large 2-7/16 in. (61.9 mm); cluster pilot light and 2-, 3-, 4-way switches 2-1/16 in. (52.4 mm).

Panel Thickness — Kits are shipped with three 1/16 in. (1.58 mm) gaskets. Refer to table below for number of washers required for various panel thicknesses.

Sketch illustrates the minimum distance between centerlines when mounting Bulletin 800T/H controls either side-by-side, facing each other, or one above the other. When control units are mounted so that the contact block terminals face each other, the 2-1/4 in. (57.2 mm) dimension must be used in order to get proper electrical clearance. When control units are mounted so that the contact block terminals do not face each other, the 1-27/32 in. (46.8 mm) dimension can be used.

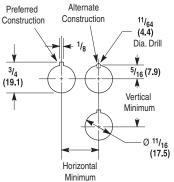
Typical Panel Cut-Out



	1/16 in. (1.6 mm) (16 Gauge)	7/64 in. (2.8 mm) (12 Gauge) 9/64 in. (3.6 mm) (10 Gauge)	3/16 in. (4.8 mm) Panel	Thicker Than 3/16 in. (4.8 mm) Panel	Thicker Than 1/4 in. (6.4 mm) Panel
800T	3 washers	2 washers	1 washer	Counterbore to 3/16 in. (4.8 mm)	Counterbore to 3/16 in. (4.8 mm)
800H	4 washers	3 washers	2 washers	1 washer	Counterbore to 1/4 in. (6.4 mm)

Mounting Instructions for 18 mm Small Pilot Lights

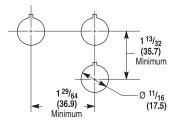
Type A Legend Plate



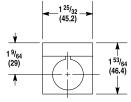
Cat. No. 800T-N515

	Dimensions				
Device	Horizontal	Vertical			
800T-PS, PSD, PST, QS, QST and RST	31/32 (24.6)	1-5/32 (29.4)			
800T-PSDT	1-3/64 (26.6)	1-15/64 (31.4)			

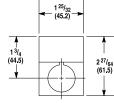
Type B Legend Plate



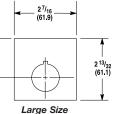
Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes. **Legend Plate Dimensions (Bul. 800T Only)**



Standard Legend Plate

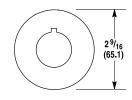


Jumbo Legend Plate

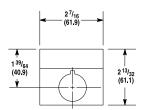


Push-Pull/Twist Legend Plate
Cat. No. 800T-X647★

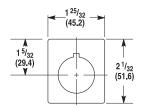
1 ³⁹/₆₄ (40.9)



Round Cat. No. 800T-X646★

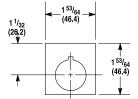


Large Legend Plate (Automotive Industry Type)

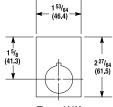


Cluster Pilot Light and 2-3-4 Way Switch Silver Legend Plate Cat. No. 800T-X619

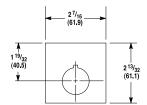
Legend Plate Dimensions (Bul. 800H Only)



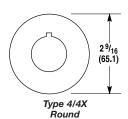
Type 4/4X Standard Legend Plate



Type 4/4X Jumbo Legend Plate



Type 4/4X Large Legend Plate (Automotive Industry Type)

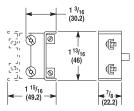




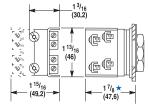
Type 4/4X Standard Legend Plate (Flip Lever Operators)

[★] For panel mounting only. Not for use with Allen-Bradley enclosures.

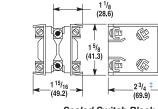
Blocks (Bul. 800T Only)



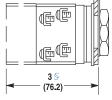
Mini Contact Block 7/8 (22.2) Deep



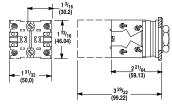
Shallow, PenTUFF, and Logic Reed Contact Blocks 1-1/8 (28.6) Deep



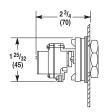
Sealed Switch Block 2 (50.8) Deep



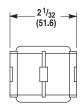
Tandem Mounting (2 shallow contact blocks stacked)

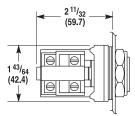


Stackable Sealed Switch Block 1.58 (40.1) Deep



Time Delay Contact Block (For Push Buttons Only)

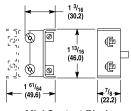




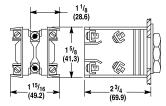
Snap Action Contact Block (For Push Button Only)

- ★ Dimension shown is for push buttons. Selector switch dimension is 2-1/32 in. (51.6 mm).
- † Dimension shown is for push buttons. Selector switch dimension is 2-27/32 in. (72.2 mm). § Dimension shown is for push buttons. Selector switch dimension is 3-5/32 in. (80.2 mm).

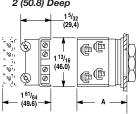
Blocks (Bul. 800H Only)



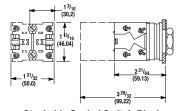
Mini Contact Block



Sealed Switch Block 2 (50.8) Deep



Shallow, PenTUFF and Logic Reed Contact Blocks

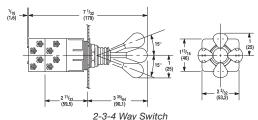


Stackable Sealed Switch Block 1.58 (40.1) Deep

Dim.	Momentary Push Button	Maintained Push Button	Selector Switch
A	2 (50.8)	2 (50.8)	1-29/32 (48.4)

Operator Extension Behind Panel — When mounted with thrust washer, trim washer, or notched legend plate and correct number of rubber washers.

Push Buttons and Switches (Bul. 800T Only)

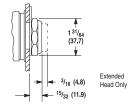


Shipping Wt. with 2 Contact Blocks 6 oz (0.17 kg) Shipping Wt. with 4 Contact Blocks 8-1/2 oz (0.24 kg)

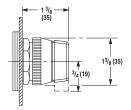
3 5/1 11/15 (42.5)

Mechanically Interlocked Maintained Contact Push Button **Shipping Wt. 1 lb (0.45 kg)**

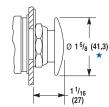
Push Buttons and Pilot Lights



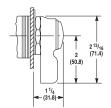
Flush and Extended Head Push Button Shipping Wt. 5-1/2 oz (0.15 kg)



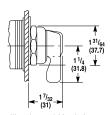
Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)



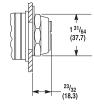
Mushroom Head Push Button Shipping Wt. 7-1/2 oz (0.21 kg)



Wing Lever Selector Switch Shipping Wt. 8 oz (0.22 kg)

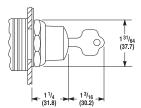


Non-Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)

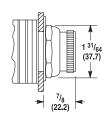


Coin Slot Selector Switch Shipping Wt. 6 oz (0.17 kg)

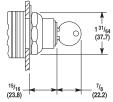
Operator Extension in Front of Panel (Bul. 800T Only)



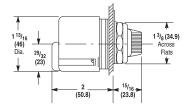
Key Operated Selector Switch Shipping Wt. 12 oz (0.34 kg)



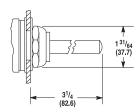
Selector Push Button Shipping Wt. 6 oz (0.17 kg)



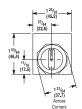
Push Button with Cylinder Lock Shipping Wt. 12 oz (0.34 kg)



Type J Potentiometer Unit Shipping Wt. 4 oz (0.11 kg)

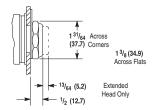


Wobble Stick
Shipping Wt. 9 oz (0.25 kg)

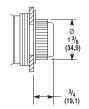


[★] Except jumbo which is 2-1/4 (57.2).

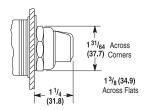
Push Buttons and Switches (Bul. 800H Only)



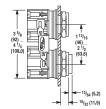
Bootless Flush and Extended Head Momentary Contact Push Button Shipping Weight. 5-1/2 oz (0.16 kg)



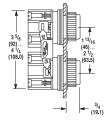
Booted Flush and Extended Head Momentary Contact Push Button Shipping Weight. 5-1/2 oz (0.16 kg)



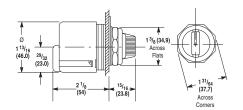
Standard Knob Selector Switch Non-Illuminated Shipping Weight. 6 oz (0.17 kg)



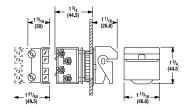
Bootless Maintained Contact Push Buttons



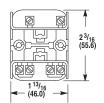
Booted Maintained Contact Push Buttons Shipping Weight. 1 lb (0.45 kg)

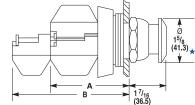


Type J Potentiometer Unit Shipping Weight. 7 oz (0.20 kg)



Type 4 Flip Lever Shipping Weight. 8 oz (0.14 kg)



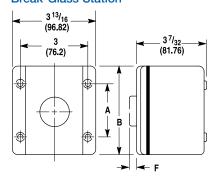


Mushroom Head — Maintained and Momentary

Non-Illuminated Mushroom and Push-Pull Push Buttons								
Cat. No. Suffix Description Dimensions Shipping								
D4	One Shallow Block	А	2-1/32 (51.6)	5 oz (0.14 kg)				
A1, A5 and A7	Two Shallow blocks	А	2-1/32 (51.6)	6 oz (0.17 kg)				
В6	Two Shallow Blocks and Two Mini Blocks	В	2-7/8 (73.0)	8 oz (0.22 kg)				

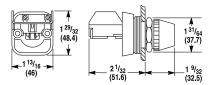
[★] Jumbo versions are 2-1/4 (57.2).

Break-Glass Station

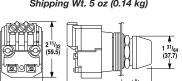


 $A = 2^{3}/_{4} (69.85)$ $B = 4^{3}/_{16} (106.38)$ $F = \frac{9}{16} (14.28)$

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

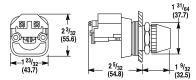


Full Voltage, Neon and Dual Input Pilot Light Shipping Wt. 5 oz (0.14 kg)

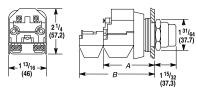


Dual Input Transformer Type Pilot Light

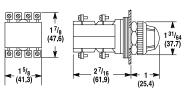
1 ⁴⁵/₆₄ (43.2)



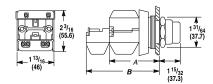
Transformer Type Pilot Light Shipping Wt. 8 oz (0.22 kg)



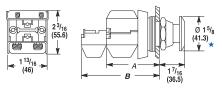
Transformer Type (Push-to-Test Pilot Light and Illuminated Push Button)



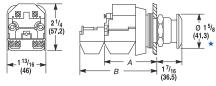
Cluster Pilot Light
Shipping Wt. 12 oz (0.34 kg)



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



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



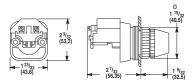
Push-Pull and Twist or Pull Release Units (Transformer Type Illuminated)

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

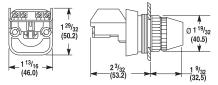
Push-to-Test Pilot Lights Illuminated Push Buttons and Illuminated Push-Pull Buttons								Non-Illuminated Push	-Pu	I Buttons		
Cat. No.	Transformer		er Type	pe Full Voltage or Neon Type			Cat. No.		Transformer Type			
Suffix‡	Description		Dim.	Ship. Wt.		Dim.	Ship. Wt.	Suffix	Description		Dim.	Ship. Wt.
D4	Transformer or Terminal Module and One Shallow Contact Block	А	2-5/32 (54.8)§	9 oz. (0.25 kg)	А	2-1/32 (51.6)	7 oz. (0.25 kg)	D4	One Shallow Contact Block	Α	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	В	2-7/8 (73)	10 oz. (0.28 kg)	В	2-7/8 (73)	8 oz. (0.22 kg)	A4 A5 A7	Two Shallow Contact Blocks	Α	2-1/32 (51.6)	6 oz. (0.17 kg)
AP D1P D2P	Transformer or Terminal Module and One Sealed Switch Contact Block	А	3-1/32 (77)	10 oz. (0.28 kg)	А	2-29/32 (73.8)	8 oz. (0.22 kg)	В6	Two Shallow Blocks and Two Mini Contact Blocks	В	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).

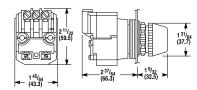
Push-to-Test Pilot Light and Illuminated Devices (Bul. 800H Only)



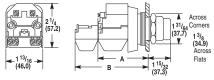
Transformer Type Pilot Light (Incandescent and LED) Shipping Weight. 12 oz (0.34 kg)



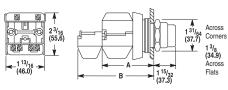
Full Voltage and Dual Input Diode Type Pilot Light (Incandescent, Neon, LED) Shipping Weight. 5 oz (0.14 kg)



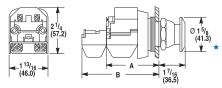
Dual Input Transformer Type Pilot Light Shipping Weight. 14 oz (0.40 kg)



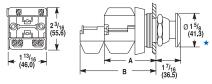
Push-to-Test Pilot Light and Illuminated Push Button (Transformer Type: Incandescent, LED)



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



Momentary Mushroom, Push-Pull and Twist or Pull Release Units (Transformer Type: Incandescent, LED; Illuminated)



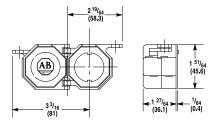
Momentary Mushroom, Push-Pull and Twist or Pull Release Units (Full Voltage: Incandescent, LED, Neon; and Dual Input Illuminated)

Push-to-Test Pilot Lights Illuminated Push Buttons, Illuminated Push-Pull and Twist or Pull Release Push Buttons

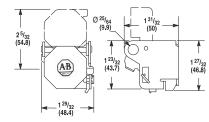
Cat. No.			Transformer T	уре	Full Voltage or Neon Type			
Suffix‡			Dimension		Dimension		Shipping Weight	
D4	Transformer or Terminal Module and One Shallow Contact Block	А	2-5/32 (54.8)§	9 oz. (0.25 kg)	А	2-1/32 (51.6)*	7 oz. (0.20kg)	
A1 and A7	Transformer or Terminal Module, One Shallow Block and One Mini Contact Block	В	2-7/8 (73)	10 oz. (0.28 kg)	В	2-7/8 (73)	8 oz. (0.22 kg)	
AP	Transformer or Terminal Module and One Sealed Switch Contact Block	В	2-29/32 (73.8)	10 oz. (0.28 kg)	В	2-29/32 (73.8)	8 oz. (0.22 kg)	

- ★ Jumbo mushroom versions are 2-1/4 in. (57.2 mm) diameter.
- ‡ Applies to illuminated push-pull push buttons only.
- $\$ Dual input type pilot light dimension is 2-13/32 in. (61.1 mm).
- Dual input type pilot light dimension is 2-9/32 in. (57.9 mm).

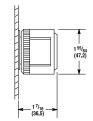
Accessories



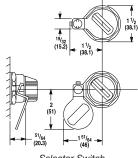
Push Button Padlocking Cover (not for use with Jumbo Mushroom Head devices) Shipping Wt. 1 oz (0.03 kg)



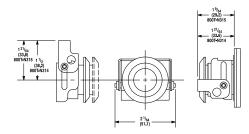
Selector Switch and Potentiometer Unit Padlocking Cover



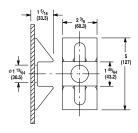
Protective Ring and Push-Pull Illuminated or Non-Illuminated Operators



Selector Switch
Padlocking Attachment

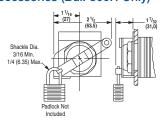


Push-Pull Padlocking Attachment and Metal Mushroom Push Button Padlocking Attachment

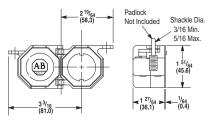


Ramp Guard for Push-Pull Illuminated or Non-Illuminated Operators

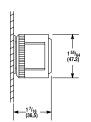
Accessories (Bul. 800H Only)



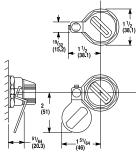
Locking Attachment for Extended, Non-Illuminated Push Buttons



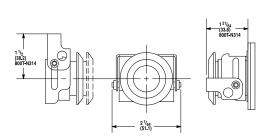
800H-N140 Locking Cover for 2-Position Non-Illuminated Maintained Twist or Pull Release and Standard Knob Selector Switch (1-5/8 (41.3) Mushroom Head only)



Protective Ring for 2-Position Push-Pull/Twist Illuminated or Non-Illuminated Operators

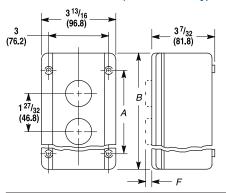


Non-Illuminated Selector Switch Padlocking Adjustment



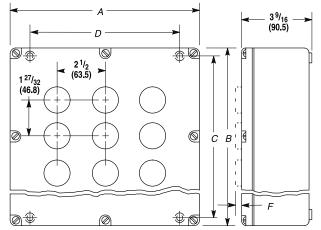
Push-Pull/Twist Padlocking Attachment

Die Cast Enclosures (Bul. 800T Only)



Enclosure Dimensions										
	No. of Units									
Dim.	1	1 2 3 4 6								
А	2-3/4 (69.9)	4-1/2 (114.3)	6-1/4 (158.8)	8 (203.2)	12-1/8 (308)					
В	4-3/16 (106.4)	5-7/8 (144.2)	7-9/16 (192.1)	9-1/2 (241.3)	13-1/2 (342.4)					

Note: Mounting holes (4) — Screw shaft 13/64 in. (5.16 mm) max. diameter.



	Enclosure Dimensions									
		No. of	Units							
Dim.	6	9	12	16						
А	7-1/4	9-3/4	9-3/4	12-1/2						
	(184.2)	(247.7)	(247.7)	(317.5)						
В	9	9	11	11						
	(228.6)	(228.6)	(279.4)	(279.4)						
С	8-1/4	8-1/4	10-1/8	10-1/8						
	(209.6)	(209.6)	(257.2)	(257.2)						
D	5-3/8	7-7/8	7-7/8	10-5/8						
	(136.5)	(200)	(200)	(269.9)						

Note: Mounting holes (4) — Screw shaft 7/32 in. (5.56 mm) max. diameter.

F Dimension

Type of	Unit	Dimension F			
Push Buttons	Flush Extended Extended Mushroom Selector Cylinder Lock	15/32 (11.9) 21/32 (16.7) 1 (25.4) 7/8 (22.2) 1-13/16 (46)			
Selector Switches	Standard Cylinder Lock Coin Slot	1-7/32 (30.9) 2-7/16 (61.9) 3/4 (19.1)			
Pilot L	Pilot Light				
Potention	meters	1-1/16 (27)			

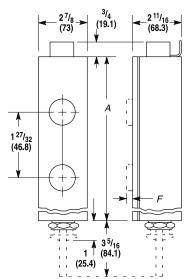
Conduit Openings

			No. of Units★						
General Class	Description	14	6	9	12	16	20	25	
Surface Mounted Enclosure	Die Cast	3/4 in. 14 N.P.T.	1 in. 11-1/2 N.P.T.	1 in. 11-1/2 N.P.T.	1 in. 11-1/2 N.P.T.	1-1/2 in. 11-1/2 N.P.T.	_	_	

[★] Number of units that can be mounted in the enclosure.

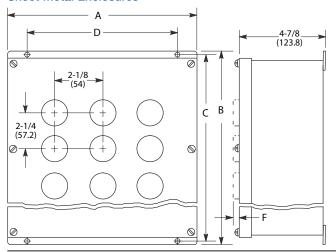
Enclosures (Bul. 800T Only), Continued

Pendant Stations



No. of Units	Dimension A
2	5-13/16 (147.6)
3	7-21/32 (194.5)
4	9-1/2 (241.3)
5	11-11/32 (288.1)
6	13-3/16 (335)
7	15-1/32 (381.7)
8	16-7/8 (428.6)
9	18-23/32 (475.4)
10	20-9/16 (522.3)

Sheet Metal Enclosures



	Enclosure Dimensions											
			No. of	Units								
Dim.	6	9	12	16	20	25						
Α	6-15/16	8-11/16	8-11/16	10-7/16	10-7/16	12-1/2						
	(176.2)	(220.7)	(220.7)	(265.1)	(265.1)	(317.5)						
В	11-1/8	11-1/8	13-1/2	13-1/2	15-7/8	15-7/8						
	(282.6)	(282.6)	(342.9)	(342.9)	(403.2)	(403.2)						
С	10-1/2	10-1/2	12-7/8	12-7/8	15-1/4	15-1/4						
	(266.7)	(266.7)	(327)	(327)	(387.4)	(387.4)						
D	5	6-3/4	6-3/4	8-1/2	8-1/2	10-1/4						
	(127)	(171.5)	(171.5)	(215.9)	(215.9)	(260.4)						

Note: Mounting holes (4) — Screw shaft 7/32 in. (5.56 mm) max. diameter.

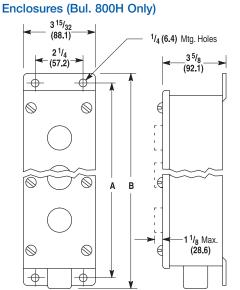
F Dimension

Type of Un	Type of Unit				
Push Buttons	Flush Extended Extended Mushroom Selector Cylinder Lock	15/32 (11.9) 21/32 (16.7) 1 (25.4) 7/8 (22.2) 1-13/16 (46)			
Selector Switches	Standard Cylinder Lock Coin Slot	1-7/32 (30.9) 2-7/16 (61.9) 3/4 (19.1)			
Pilot Ligh	1-1/8 (28.6)				
Potentiomet	Potentiometers				

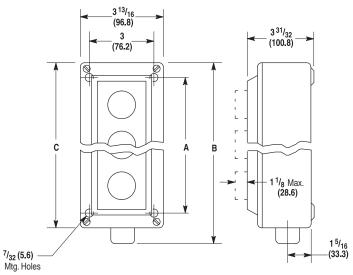
Conduit Openings

			No. of Units★								
General Class	Description	14	6	9	12	16	20	25			
Surface Mounted Enclosure	Sheet Metal		None — Drilled to suit by customer.								
					No. of Units★						
Pendant Type	with Opening in Bottom		25		610						
Enclosure	Bottom	1	1 (25.4) Conduit Hub 1-1/4 (31.8) Conduit Hub								
	with Opening in Cover	1	(25.4) Conduit Hu	b	1-1/4 (31.8) Conduit Hub						

 $[\]bigstar$ Number of units that can be mounted in the enclosure.



Type 4/4X/13 Stainless Steel Watertight, Oiltight, Corrosion Resistant Enclosure

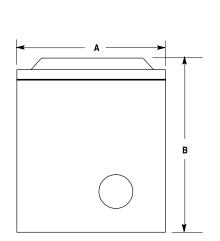


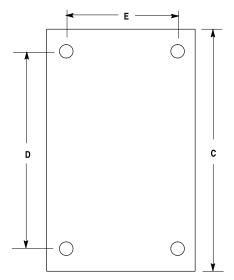
Type 4/4X/13 Rosite Glass Polyester Watertight, Oiltight, Corrosion Resistant Enclosure

		Type 4/4X/13 Stainless Steel									
		Number of Units									
Dimension	1	2	3	4	5	6	7	8			
А	5-5/32 (131)	7 (177.8)	8-27/32 (224.6)	10-11/16 (271.5)	12-17/32 (318.3)	14-3/8 (365.1)	16-7/32 (412)	18-1/16 (458.8)			
В	6-13/32 (162.7)	8-1/4 (209.6)	10-1/8 (257.2)	11-31/32 (304)	14-1/32 (356.4)	15-7/8 (403.2)	17-3/4 (450.8)	19-19/32 (497.7)			
С		_			_						
Conduit Knockout Size		_	_			-	_				
Pipe Tap Size	3/4 (19.1)					(25	1 5.4)				
Approximate Shipping Wt. [lbs (kg)]	2-3/4 (1.3)	3-3/4 (1.7)	4-3/4 (2.2)	5-3/4 (2.6)	6-3/4 (3.1)	7-3/4 (3.5)	8-3/4 (4)	9-3/4 (4.4)			

	Type 4/4X/13 Rosite									
	Number of Units									
Dimension	1	2	3	4	5	6				
А	4-1/2 (114.3)	4-1/2 (114.3)	6-1/4 (158.8)	8 (203.2)	12-1/8 (308)	12-1/8 (308)				
В	7-1/32 (178.6)	7-1/32 (178.6)	8-23/32 (221.5)	10-21/32 (270.7)	14-7/8 (377.8)	14-7/8 (377.8)				
С	5-7/8 (149.2)	5-7/8 (149.2)	7-9/16 (192)	9-1/2 (241.8)	13-1/2 (342.9)	13-1/2 (342.9)				
Conduit Knockout Size		_	_		-	_				
Pipe Tap Size		3 <i>/</i> (19	(25	1 5.4)						
Approximate Shipping Wt. [lbs (kg)]	2 (0.9)	2 (0.9)	2-1/2 (1.1)	3 (1.4)	4 (1.8)	4 (1.8)				

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes. **Enclosures (Bul. 800H Only), Continued**

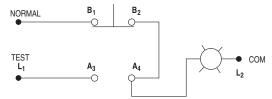




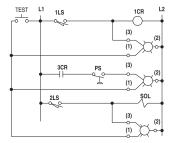
	Fiberglass Type 4/4X/12/13						
		Number of Units					
Dimension	1	2	3				
AxBxC	4-1/2 x 5-3/16 x 6	4-1/2 x 5-3/16 x 8	6-1/2 x 5-7/16 x 8				
	(114.3 x 131.8 x 152.4)	(114.3 x 131.8 x 203.2)	(165.1 x 138.1 x 203.2)				
D x E	4-3/4 x 2	6-3/4 x 2	6-3/4 x 4				
	(120.7 x 50.8)	(171.5 x 50.8)	(171.5 x 101.6)				
Conduit Knockout Size	3/4	1	1				
	(19.1)	(25.4)	(25.4)				
proximate Shipping Wt. [lb (kg)]	2	1/4	3				
	(0.9)	(1.0)	(1.4)				

Typical Pilot Light Wiring Diagrams

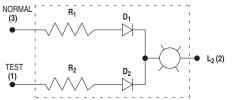
See applicable codes and laws



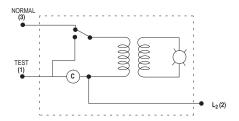
Push-to-Test Pilot Light Device Schematic



Dual Input Pilot Light Typical Application Wiring Diagram



Dual Input Diode Pilot Light Device Schematic



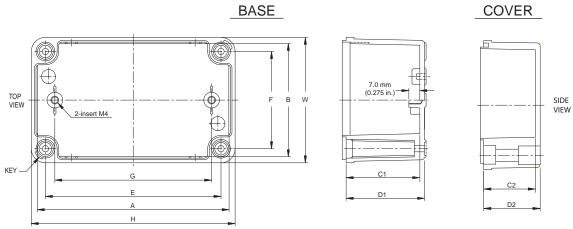
Dual Input Pilot Light Transformer Type Device Schematic

General Purpose Enclosures

Bulletin	800H
Description	Push Button Enclosure
Features	Designed to house 30.5 mm (Bul. 800H) push buttons (available in grey or yellow colors)
Dimensions [mm]	Available in 4 sizes (Height x Width x Depth)
	1-Hole: 110 x 80 x 70
	2-Hole: 130 x 80 x 85
	3-Hole: 180 x 80 x 85
	4-Hole: 250 x 80 x 85
Degree of Protection	Type 1, 4, 4X, 12, 13 IP66 Indoor/Outdoor
Storage Temperature Range	-40+75 °C (-40+158 °F)
Operating Temperature Range	-40+55 °C (-40+131 °F)
Material	
Enclosure	Thermoplastic polyester blend, UL94-5VA
Gasket	Foam-in-place polyutherane
Standards	UL 508A and CSA C22.2, No. 14
Certifications	cULus, CE

Approximate Dimensions

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

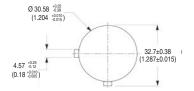


Thermoplastic Polyester Type 4/4X

		Overall D	imension			Inside Di	imension			• Mounting	Mounting Plate Mounting Dim.
Cat. No.	Н	W	D1	D2	Α	В	C1	C2	E	F	G
800H-1HZ4	110	80	50	20	104	74	46.5	16.5	92	62	80
	(4.33)	(3.15)	(1.97)	(0.79)	(4.09)	(2.91)	(1.83)	(0.65)	(3.62)	(2.44)	(3.15)
800H-2HZ4	130	80	50	35	120	70	46.5	31.5	112	62	100
	(5.12)	(3.15)	(1.97)	(1.38)	(4.72)	(2.76)	(1.83)	(1.24)	(4.41)	(2.44)	(3.94)
800H-3HZ4	180	80	50	35	170	70	46.5	31.5	162	62	150
	(7.09)	(3.15)	(1.97)	(1.38)	(6.69)	(2.76)	(1.83)	(1.24)	(6.38)	(2.44)	(5.91)
800H-4HZ4	250	80	50	35	240	70	46.5	31.5	232	62	220
	(9.84)	(3.15)	(1.97)	(1.38)	(9.45)	(2.76)	(1.83)	(1.24)	(9.13)	(2.44)	(8.66)

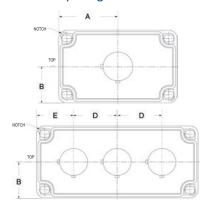
Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

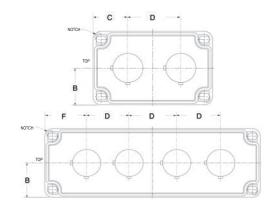
Push Button Hole



30.5 mm Push Button Hole

Push Button Hole Spacing





Cat. No.	Туре	Α	В	С	D	E	F
800H-1HZ4C	1-Hole	55±.216 (2.165±0.0085)	- 40±0.5 (1.57±0.020)	_	46.8±0.191 (1.843±0.0075)	_	_
800H-2HZ4C	2-Hole	_		41.6±0.175 (1.64±0.0069)		_	_
800H-3HZ4C	3-Hole	_		_		43.2 +0.32/-0.18 (1.7 +0.0126/- 0.0071)	_
800H-4HZ4C	4-Hole	_		_		_	54.8±0.216 (2.16±0.0085)

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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