

30 mm Push Button Specifications

Bulletin Numbers 800T, 800H

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Pages
Added footnotes for noncompliance with EN ISO 13850.	49, 56, 57, 59, 60

IMPORTANT Performance data that is given in this publication is provided only as a guide for you to determine 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 you are responsible for correlating the data to actual application requirements. ALL WARRANTIES AS TO ACTUAL PERFORMANCE, WHETHER EXPRESS OR IMPLIED, ARE EXPRESSLY DISCLAIMED.

Table 1 - Electrical Ratings

Attribute	Bulletin 800T and 800H
Contact ratings	See the contact ratings tables on page 4 .
Dielectric strength	2200V for 1 minute, 1300V for 1 minute (Logic Reed)

Table 2 - Mechanical Ratings

Attribute	Bulletin 800T and 800H			
Vibration	10...2000 Hz, 0.06 in. (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 lifecycles, min	Push buttons	Momentary, non-illuminated, flush, and extended head	10,000,000	
		Momentary, illuminated	250,000	
		Push-pull/twist-to-release	250,000 ⁽¹⁾	
	Selector switches	Non-illuminated	1,000,000	
		Illuminated, key-operated	200,000	
	Potentiometers	25,000		
All other devices	200,000			
Contact block operation	Shallow, mini, and low-voltage	Slow, double make and break		
	Logic reed and sealed switch	Single break magnetic		
Wire gauge/terminal screw torque	#18...14 AWG (#18...10 MaxDuty) / 6...8 lb•in			
Typical operating forces	Operators without contact blocks		<ul style="list-style-type: none"> Flush, extended button, standard mushroom, jumbo plastic mushroom: 2 lb max Jumbo and extended aluminum mushroom head: 3.95 lb max Maintained selector switch: 3.6 in•lb max 	
	Spring-return selector switches		3.6 in•lb to stop, 0.2 in•lb to return	
	Illuminated push buttons and push-to-test pilot lights		5 lb max	
	2-position push-pull		8.0 lb max push or pull	
	3-position push-pull		8 lb max push to in position or pull to center position (15 lb max pull to out position)	
	Twist-to-release or push-pull		9 lb max push or pull 30 in•oz max twist, 6 in•oz min return	
	Potentiometer		Rotational torque 3...12 in•oz; stopping torque 12 in•lb (min)	
	Contact blocks	Standard	1 lb	
		Logic Reed and stackable sealed switch	1 lb max	
		Sealed switch	3 lb max at 0.205 in. (5.2 mm) plunger travel	
MaxDuty and PenTUFF™		1.4 lb max		
Self-Monitoring		1.6 lb		

(1) Illuminated trigger action E-stops are rated for 150,000 minimum mechanical operations when using Cat. No. 800TC-XD4S self-monitoring contact blocks (SMCBs).

Table 3 - Environmental Ratings

Attribute		Bulletin 800T and 800H
Temperature Range	Operating ⁽¹⁾	-13...+104 °F (-25...+40 °C)
	Storage	-40...+185 °F (-40...+85 °C)
Humidity		50...95% RH from 77...140 °F (25...60 °C) per Procedure IV of MIL-STD-810C, Method 507.1 cycling test

(1) Operating temperatures below freezing are based on the absence of moisture and liquids. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for use in lower temperature applications.

Table 4 - Materials Used in Bulletin 800H Type 4X Operators

Material	Where Used
Thermoplastic Polyester (Fiberglass Reinforced)	Bushings, mounting rings, and sockets
Transparent Amorphous Nylon	Pilot light lens cap and illuminated button caps
Mineral-filled Nylon	Trim washer
Thermoplastic Polyester	Non-illuminated button caps
Glass-filled Crystalline Nylon	Thrust washer
Nitrile (Synthetic Rubber)	Gaskets and internal seals

Standards Compliance and Certifications

Standards Compliance	UL 508, CCC
Certifications	<ul style="list-style-type: none"> 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)

Contact Ratings

Use the following tables to verify that the ratings meet the needs of your applications.

Standard Contacts

- Minimum: 24V, 24 mA
- Maximum thermal continuous current I_{th} 10 A AC/2.5 A DC.

Bulletin 800T units with 800T-XA contacts have the following ratings:

Max Operational Volts U_e	Utilization Category		Rated Operating Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 600	AC-15	A600	120...600	7200VA	720VA
			72...120	60 A	720VA
			24...72	60 A	10 A
DC 600	DC-13	Q600	28...600	69VA	
			24...28 ⁽¹⁾	2.5 A	

(1) For applications below 17V/5 mA, PenTUFF or Logic Reed contacts are recommended.

Electrical design lifecycles: 1,000,000 (at max rated load)

Explosion-protected Contacts

- Maximum thermal continuous current I_{th} = 10 A
- Minimum low-energy switching load: 17V DC, 5 mA
- Electrical design lifecycles: 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

Bulletin 800T units with 800TC-XAF contacts have the following ratings:

Max Operational Volts U_e	Utilization Category		Rated Operating Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 600	AC-15	A600	120...600	7200VA	720VA
			72...120	60 A	720VA
			24...72	60 A	10 A
DC 600	DC-13	P300	24...300	138VA	
			0...24	5.0 A	
		Q600	28...600	69VA	
			24...28	2.5 A	

Sealed Switch Contacts

- Minimum: 5V, 1 mA
- Maximum continuous current I_{th} 5 A.

Bulletin 800T units with sealed switch contact blocks have the following ratings:

Max Operational Volts U_e	Utilization Category		Rated Operating Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 600	AC-15	B600	120...600	3600VA	360VA
			0...120	30 A	3 A
DC 300	DC-13	P300	24...300	138VA	
			0...24	5.0 A	

Stackable Sealed Switch Contacts

Series A

- Minimum: 5V, 10 mA (digital); 24V, 1 mA (analog)
- Maximum continuous current I_{th} 2.5 A.

Bulletin 800T units with stackable sealed switch contact blocks have the following ratings:

Max Operational Volts U_e	Utilization Category		Rated Operating Currents		
	IEC	NEMA	Volts U_e	Make	Break
AC 300	AC-15	C300	120...300 0...120	1800VA 15 A	180VA 1.5 A
DC 150	DC-13	Q150	24...150 0...24	69VA 2.5 A	

Series B

- Minimum: 5V, 10 mA (digital); 24V, 1 mA (analog)
- Maximum continuous current I_{th} 5.0 A.
- Electrical design lifecycles: 1,000,000 min.
- Vibration: 5 g, 0.5 mm peak-to-peak displacement, sine sweep 10...2000 Hz / IEC 60068-2-6
- Shock: 20 g / IEC 60068-2-27

Max Operational Volts U_e	Utilization Category		Rated Operating Current (A)				Volt-Amp Rating	
			120V		240V			
	IEC	NEMA	Make	Break	Make	Break	Make	Break
AC 300	AC-15	B300	30	3	15	1.5	3600	360
DC 150	DC-13	Q150	24...150V				69	
			0...24V				2.5 A	

Logic Reed Contacts

- Minimum – DC: 5V, 1 mA
- Maximum – DC: 30V, 0.06 A, AC: 150V, 0.15 A
- Only used with resistive loads.
- Electrical design lifecycles: 200,000 (at max rated load)

PenTUFF (Low Voltage) Contacts

- 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 the following ratings:

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

Snap Action Contacts

Bulletin 800T units with snap action contact blocks have the following ratings:

Max Operational Volts U_e	Contact Rating Designation	Rated Operating Currents		
		Volts U_e	Make	Break
AC 300	A300	120...300 24...72	7200VA 60 A	720VA 10 A
DC 250	—	230...250 115...125	0.2 A 0.4 A	

MaxDuty Contact Ratings

- Maximum thermal continuous current I_{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

IMPORTANT This device is not rated for DC applications.

Bulletin 800T units with time delay contact blocks have the following ratings:

Max Operational Volts U_e	Contact Rating Designation	Rated Operating Currents		
		Volts U_e	Make	Break
AC 120	B150	120	3600VA	360VA

Adjustment range: 0.5...15 s \pm 25% I_{th} = 5 A

Assembled Stations

Our 30 mm assembled stations are available in die-cast aluminum, stainless steel, glass, and thermoplastic polyester resin construction. These stations come completely assembled for easy installation or they can be custom-built to fit your needs (see [page 37](#)).



Die Cast Aluminum
Cat. No. 800T-2TAR



Booted Operator - Stainless Steel
Cat. No. 800H-1HA4T



Booted Operator - Glass Polyester
Cat. No. 800H-1HA4R

Operator	Contact Symbol	Contact Action	Button Type	Button Color	Legend Marking	Type 4/13	Type 4/4X/13		
						Die Cast Aluminum	Booted Operator - Stainless Steel	Booted Operator - Glass Polyester	
						Cat. No.	Cat. No. (1)	Cat. No. (1)	
One push button		1 N.O. - 1 N.C.	Momentary	Extended	Red	STOP	800T-1TA	800H-1HA4T	800H-1HA4R
			Momentary	Flush	Green	START	800T-1TB	800H-1HB4T	800H-1HB4R
			Momentary	Flush	Black	No legend	800T-1TX	800H-1HX4T	800H-1HX4R
Two push buttons		1 N.O. - 1 N.C. each button	Momentary	Flush Extended	Green Red	START STOP	800T-2TA	800H-2HA4T	800H-2HA4R
			Momentary	Flush Flush	Black Black	No legend	800T-2TX	800H-2HX4T	800H-2HX4R
One pilot light, two push buttons		1 N.O. - 1 N.C. each button	Momentary	120V AC Flush Extended	Red Green Red	No legend START STOP	800T-2TAR	800H-2HAR4T	800H-2HAR4R
			Momentary	120V AC Flush Flush	Red Black Black	No legend	800T-2TXR	800H-2HXR4T	800H-2HXR4R
3-position selector switch		1 N.O. - 1 N.C.	Maintained	Knob lever	Black with white insert	HAND-OFF-AUTO	800T-R3TA	—	—
			Maintained	Knob lever	Black with white insert	No legend	800T-R3TX	—	—
One push button		1 N.C.L.B.	Maintained	Push-pull/Twist	Red	EMERG STOP	800T-1TYM (2)	—	—
Two push buttons		1 N.O. - 1 N.C.	Maintained	Flush Extended	Green Red	START STOP	800T-2TAM	800H-2HAM4T	800H-2HAM4R
			Maintained	Flush Flush	Black Black	No legend	800T-2TXM	800H-2HXM4T	800H-2HXM4R

(1) Boot material is chlorosulfonated polyethylene. Add suffix L to the cat. no. for station with bootless operators. Example: Cat. No. 800H-1HB4T becomes Cat. No. 800H-1HB4TL.

(2) Supplied with yellow legend plate to comply with IEC 60947-5-5 and NFPA79 E-stop standards that require yellow background.

Emergency Stop Devices (Trigger Action)

Our E-stops devices are tamper-resistant featuring front-of-panel mounting and nonremovable operator heads. They are also compliant with global E-stop standards, including EN ISO 13850 and EN 60947-5-5. All push buttons are red, 2-position with twist-to-release trigger action. They are available in non-illuminated and illuminated versions.

2-position – Non-illuminated



Cat. No. 800T-TFXJET6



Cat. No. 800T-TFXLET6



Cat. No. 800T-TFXK6



Cat. No. 800H-TFRXT6

800 T - TFX T 6 D2
 a b c d e

a	
Protection Rating	
Code	Description
T	Metal, Type 4/13
H	Plastic, Type 4/4X/13

b	
Fingersafe Guards	
Code	Description
Blank	No guards
C	Guard on terminals

c		
Head Type		
800T Code	Description	800H Code
TFX	Standard (45 mm) mushroom head	TFRX
TFXJ	Jumbo (60 mm) mushroom head	TFRXJ
TFXJE	Jumbo (60 mm) mushroom head with "E-stop" ⁽¹⁾	TFRXJE
TFXK	45 mm mushroom head key release	—
TFXL	63 mm anodized aluminum head	—
TFXLE	63 mm anodized aluminum head with "E-stop" ⁽¹⁾	—

(1) "E-stop" on the mushroom head does not comply with EN ISO 13850.

d	
Release Function	
Code	Description
Blank	Key release ⁽¹⁾ (2)
T	Twist release

e			
Contact Blocks			
Code	Operator Position		Description
	Out	In	
Blank	—	—	No contacts on operator
Standard			
D2	X	0	1 N.C.
A	0 X	X 0	1 N.O. - 1 N.C.
A4	X X	0 0	2 N.C.
PentUFF™ (Low Voltage)			
D2V	X	0	1 N.C.
AV	0 X	X 0	1 N.O. - 1 N.C.

X = Closed/0 = Open

e (cont'd)			
Contact Blocks			
Code	Operator Position		Description
	Out	In	
Class I, Div 2 – Explosion-protected			
AF	0 X	X 0	1 N.O. - 1 N.C.
BF	0 X 0 X	X 0 0 X	2 N.O. - 2 N.C.

X = Closed/0 = Open

- (1) Configurable only with FXK head type.
- (2) Provided with two D018 keys.

2-position – Illuminated

- Light-emitting diode (LED) illumination is provided as standard



Cat. No. 800T-TFXTS00R



Cat. No. 800T-TFXJETS00R



Cat. No. 800H-TFRXTS00R



Cat. No. 800H-TFRXJETS00R

800 **T** **-** **TFXT** **QH** **2** **R** **A**
 a b c d e f

a	
Protection Rating	
Code	Description
T	Metal, Type 4/13
H	Plastic, Type 4/4X/13

b	
Fingersafe Guards	
Code	Description
Blank	No guards
C	Guard on terminals

c		
Head Type		
800T Code	Description	800H Code
TFXT	Standard (45 mm) mushroom head	TFRXT
TFXJT	Jumbo (60 mm) mushroom head	TFRXJT
TFXJET	Jumbo (60 mm) mushroom head with "E-stop" ⁽¹⁾	TFRXJET

(1) "E-stop" on the mushroom head does not comply with EN ISO 13850.

d	
Illumination Option	
Code	Description
PH	Transformer with LED lamp
QH	Full voltage with LED lamp
S	Operator only

e	
Voltage	
Code	Description
Transformer	
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	
2	12...130V AC/DC
Operator Only	
00	No power module

f		
Target		
Contact		
N.O.	0	X
N.C./ N.C.L.B./ S.M.C.B.	X	0
Contact Blocks		
Code	Description	
Blank	No contacts	
Standard		
D2	1 N.C.	
D4S	1 S.M.C.B.	
A	1 N.O. - 1 N.C.	
G1	2 N.O. - 2 N.C.	
PenTUFF (Low Voltage)		
D2V	1 N.C.	
AV	1 N.O. - 1 N.C.	
G1V	2 N.O. - 2 N.C.	
Class I, Div 2 – Explosion-protected		
AF	1 N.O. - 1 N.C.	
G1F	2 N.O. - 2 N.C.	

X = Closed/O = Open

Momentary Contact Devices – Non-illuminated



Flush Head Unit
Cat. No. 800T-A1A



Extended Head Unit
Cat. No. 800T-B6A

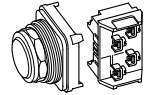


Booted Unit
Cat. No. 800H-R2A



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

800 T - A 1 A
a b c d e f



a	
Protection Rating	
Code	Description
T	Metal, Type 4/13
H	Plastic, Type 4/4X/13

b	
Fingersafe Guards	
Code	Description
Blank	No guards
C	Guard on terminals

c		
Operator Type		
800T Code	Description	800H Code
A	Flush head	AR
B	Extended head	BR
D	Mushroom head	DR
DX	Mushroom head (no color cap)	DRX
–	Bootless guarded head	GR
–	Booted head	R ⁽²⁾

d	
Color Cap	
Code	Description
Blank	Used only when Operator Type DX/DRX is ordered
1	Green
2	Black
3	Orange ⁽¹⁾
4	Gray ⁽¹⁾
5	White ⁽¹⁾
6	Red
7	Blue
9	Yellow

(1) Not available for booted operators.

(2) Underlying operators are extended head. Boot material is chlorosulfonated polyethylene.

e	
Special Mushroom Head	
Code	Description
J	Jumbo mushroom head (plastic)
L ⁽¹⁾	Jumbo mushroom head (metal)

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

f	
Contact Blocks	
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. ⁽²⁾
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
A	1 N.O. - 1 N.C.
B	2 N.O. - 2 N.C.

f (cont'd)	
Contact Blocks	
Code	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.
Time Delay	
T	1 N.O. Depress close, delayed opening
S	1 N.C. Depress open, delayed closure
Snap Action ⁽³⁾	
M	1 N.O. - 1 N.C.
N	2 N.O. - 2 N.C.

f (cont'd)	
Contact Blocks	
Code	Description
Class I, Div. 2 – Explosion-protected	
AF	1 N.O. - 1 N.C.
BF	2 N.O. - 2 N.C.
Class I, Div. 2 – Logic Reed	
D1R	1 N.O.
D2R	1 N.C.
A2R	2 N.O. ⁽²⁾
A4R	2 N.C.
AR	1 N.O. - 1 N.C.
BR	2 N.O. - 2 N.C.
Class I, Div. 2 – Stackable Sealed Switch	
D1Y	1 N.O.
D2Y	1 N.C.
AY	1 N.O. - 1 N.C.
BY	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...15 s + 25%. Maximum continuous current I_{th} 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_{th} 10 A.

(1) Jumbo mushroom head (metal) is only available in colors green, black, red, and yellow.

(2) A2 and A2R contact blocks cannot be stacked upon, but can stack on other contact blocks.

(3) Snap action contact blocks only available with flush and extended head operators in the colors green, black, or red.

Momentary Contact Devices – Illuminated

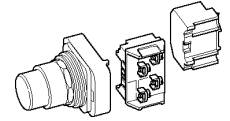


Extended Head Without Guard
Cat. No. 800T-PB16R



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

800 T - P B H 16 R
a b c d e f g h



a	
Protection Rating	
Code	Description
T	Metal, Type 4/13
H	Plastic, Type 4/4X/13

b	
Fingersafe Guards	
Code	Description
Blank	No guards
C	Guard on terminals

c		
Power Module Type		
800T Code	Description	800H Code
P	Transformer (or dual input)	PR
Q	Full voltage	QR
S	Operator only ⁽²⁾	—

d	
Head Type	
Code	Description
A	Extended head with guard
B	Extended head without guard
M	Mushroom ⁽¹⁾
MJ	Jumbo mushroom ⁽¹⁾

(1) Mushroom and jumbo mushroom head not available in yellow.
 (2) Operator only supplied without power module, lamp, lens cap, or contact blocks.

e	
Illumination Options	
Code	Description
Blank	Incandescent
H	LED
Dual Input	
D	Diode type ⁽¹⁾
T	Transformer – relay type ⁽²⁾
TH	Transformer – relay type LED ⁽²⁾

f	
Voltage	
Code	Description
Transformer	
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
20	240V AC/DC
Full Voltage – LED	
2	12...130V AC/DC
Dual Input	
16	120V AC
24	24V AC/DC ⁽³⁾
Operator Only	
00	No power module

g	
Lens Color	
Code	Description
Blank	No lens with standard contacts 1 N.O. - 1 N.C.
X	No lens if any contacts other than standard 1 N.O. - 1 N.C. is ordered.
A	Amber
B	Blue
C	Clear
G	Green
R	Red
W	White
Y	Yellow

h	
Contact Blocks	
Code	Description
X	No contacts
Standard	
Blank	1 N.O. - 1 N.C.
D1	1 N.O.
PenTUFF (Low Voltage)	
AV	1 N.O. - 1 N.C.
Class I, Div. 2 - Explosion-protected	
AF	1 N.O. - 1 N.C.
Class I, Div. 2 - Logic Reed	
AR	1 N.O. - 1 N.C.
Class I, Div. 2 - Stackable Sealed Switch	
AY	1 N.O. - 1 N.C.

(1) Diode type dual input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs.
 (2) Dual input (transformer relay type) is not configurable with Class I Div. 2 contact blocks.
 (3) Dual-input diode only.