Momentary Contact Push Button Devices, Non-Illuminated



Flush Head Unit Cat. No. 800T-A1A



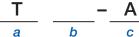
Cat. No. 800T-B6A







1



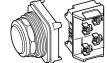
f (cont'd)

е



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

f (cont'd)



d		
Protection Rating		
Code Description		
T Metal, Type 4/13		
H 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	
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

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

'		
Contact Block(s)		
Code	e 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.	
А	1 N.O 1 N.C.	
В	2 N.O 2 N.C.	

f (cont'd)			
Contact Block(s)			
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			
	1 N.O.		
Т	Depress close, delayed		
opening			
S	1 N.C. Depress open, delayed		
3	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.		

i (cont a)		
Contact Block(s)		
Code Description		
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		
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 lth 5 A.		
Snap Action Contacts		

Snap-action contacts feature a quick make, quick break snapaction 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.

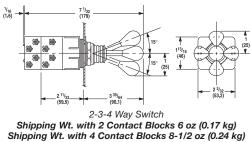
‡ Not available for booted operators.

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

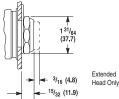
. Jumbo mushroom heads not available in white color.

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

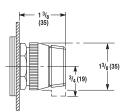
Push Buttons and Switches (Bul. 800T Only)



Push Buttons and Pilot Lights



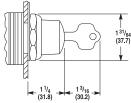
Flush and Extended Head Push Button Shipping Wt. 5-1/2 oz (0.15 kg)



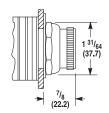
Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)

★ Except jumbo which is 2-1/4 (57.2).

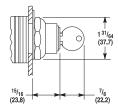
Operator Extension in Front of Panel (Bul. 800T Only)



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



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



Ø 1⁵/₈ (41.3)

2¹³/₁₆ (71.4)

(50.8)

1^{1/}16 (27)

Mushroom Head Push Button

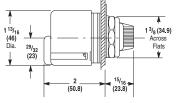
Shipping Wt. 7-1/2 oz (0.21 kg)

1¹/₄ (31.8)-

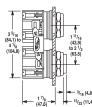
Wing Lever Selector Switch

Shipping Wt. 8 oz (0.22 kg)

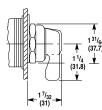
Push Button with Cylinder Lock Shipping Wt. 12 oz (0.34 kg)



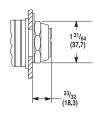
Type J Potentiometer Unit Shipping Wt. 4 oz (0.11 kg)



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



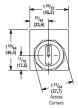
Non-Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)



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

1 ³¹/₆₄ (37.7) 3¹/₄ (82.6)

Wobble Stick Shipping Wt. 9 oz (0.25 kg)



800T/H 30.5 mm Push Buttons

Specifications *****

		Electrical Ratings
Contact ratings		Refer to the contact ratings tables on page 10-4.
Dielectric strength		2200V for one minute, 1300V for one minute (Logic Reed)
Electrical design life cycles	3	1,000,000 at max. rated load, 200,000 at max. rated load (Logic Reed)
	·	Mechanical Ratings
Vibration		102000 Hz, 1.52 mm displacement (peak-to-peak) max./ 10 G max. (except Logic Reed)
Shock		1/2 cycle sine wave for 11 ms \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 cyc	les	
	(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. ‡
Selector switches	(Non-illuminated)	1,000,000 min.
Geleciol 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 Ib∙in
Typical operating forces		
Operators without contact blocks		Flush, extended button, standard mushroom, jumbo plastic mushroom: 2 lbs max. Jumbo and extended aluminum mushroom head: 3.95 lbs max. Maintained selector switch: 3.6 in•lb max.
Spring return selector sw	vitches	3.6 in•lb to stop, 0.2 in•lb to return
Illuminated push buttons	s and push-to-test pilot lights	5 lb max.
2-position push-pull		8.0 lb max. push or pull
3-position push-pull		8 lb max. push to in position or pull to center position (15 lb max. pull to out position)
Twist-to-release or push	-pull	9 lbs max. push or pull 30 in•oz max. twist, 6 in•oz minimum return
Potentiometer		Rotational torque 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
Temperature range	Operating	-40+131 °F (-40+55 °C)
	Storage	-40+185 °F (-40+85 °C)
the absence of mois Rockwell Automatio	ures below freezing are based on sture and liquids. Consult your local n sales office or Allen-Bradley lower temperature applications.	
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).