2-Position Selector Switch Devices, Non-Illuminated



Standard Knob Operator Cat. No. 800T-H2A

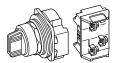


Knob Lever Operator Cat. No. 800T-H17A



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	

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	_	

d

Operator Type and Function			
Standard Knob			
Code	Operator Function		
2	Maintained		
4	Spring return from left§		
5	Spring return from right		
Knob Lever♣			
Code	Operator Function		
17	Maintained		
18	Spring return from left§		
19	Spring return from right		
	Metal Wing Lever♣		
Code	Operator Function		
11	Maintained		
15	Spring return from left§		
16	Spring return from right		
	Coin Slot♣		
Code	Operator Function		
6	Maintained		
7	Spring return from left		
8	Spring return from right		
	-		

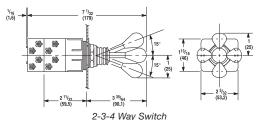
е Contact Block(s)

	Description			
Code	Contact Configuration	2-Position		
		\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	
^		Х	0	
	2 N.O 2 N.C.	0	Х	
В		Х	0	
ь		0	Х	
		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, I			
	Logic Re			
D1R	1 N.O.			
D2R	1 N.C.			
AR	1 N.O 1 N.C.			
BR	2 N.O	2 N.C.		
	Sealed Sv	witch∆		
D1P	1	N.O.		
D2P	1	N.C.		
AP	1 N.O	1 N.C.		
BP	2 N.O	2 N.C.		
	Stackable Seal	ed Switch∆		
D1Y	1 N.O.			
D2Y	1 N.C.			
AY	1 N.O 1 N.C.			
BY	2 N.O 2 N.C.			

- ‡ 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.

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

Push Buttons and Switches (Bul. 800T Only)

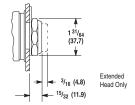


Shipping Wt. with 2 Contact Blocks 6 oz (0.17 kg) Shipping Wt. with 4 Contact Blocks 8-1/2 oz (0.24 kg)

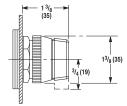
2 3/15 11/16 (4.5) 11/16 (4.5) 12/16 (4.5) 11/16 (4.5)

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

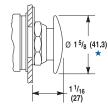
Push Buttons and Pilot Lights



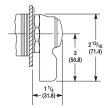
Flush and Extended Head Push Button Shipping Wt. 5-1/2 oz (0.15 kg)



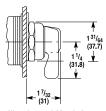
Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)



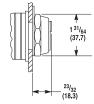
Mushroom Head Push Button Shipping Wt. 7-1/2 oz (0.21 kg)



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

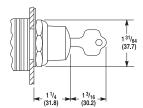


Non-Illuminated Knob Lever and Standard Knob Selector Switch Shipping Wt. 6 oz (0.17 kg)

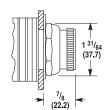


Coin Slot Selector Switch Shipping Wt. 6 oz (0.17 kg)

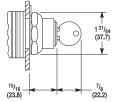
Operator Extension in Front of Panel (Bul. 800T Only)



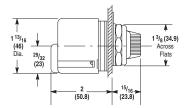
Key Operated Selector Switch Shipping Wt. 12 oz (0.34 kg)



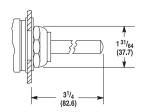
Selector Push Button Shipping Wt. 6 oz (0.17 kg)



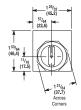
Push Button with Cylinder Lock Shipping Wt. 12 oz (0.34 kg)



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



Wobble Stick Shipping Wt. 9 oz (0.25 kg)



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

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		1,000,000 at max. rated load, 200,000 at max. rated load (Logic Reed)	
		Mechanical Ratings	
Vibration		102000 Hz, 1.52 mm displacement (peak-to-peak) max./ 10 G max. (except Logic Reed)	
Shock		1/2 cycle sine wave for 11 ms ≥ 25 G (contact fragility) and no damage at 100 G	
Degree of protection		Type 1/4/12/13 (800T); Type 1/4/4X/12/13 (800H); EN/IEC 60529 IP66/65	
Mechanical design life cycle	S		
Duck holdens	(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. ‡	
Colontor quitabas	(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 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 swit	tches	3.6 in∙lb to stop, 0.2 in∙lb to return	
Illuminated push buttons a	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	
Taman anatuma na = = =	Operating	-40+131 °F (-40+55 °C)	
Temperature range	Storage	-40+185 °F (-40+85 °C)	
the absence of moistu Rockwell Automation	es below freezing are based on ure and liquids. Consult your local sales office or Allen-Bradley ower 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).