

### Contents

<b>Description</b>	<b>Page</b>
<b>Product Description</b> .....	<b>47-115</b>
<b>Features</b> .....	<b>47-116</b>
<b>Benefits</b> .....	<b>47-116</b>
<b>Contact Operation</b> .....	<b>47-116</b>
<b>Standards and Certifications</b> .....	<b>47-116</b>
<b>Technical Data and Specifications</b> .....	<b>47-116</b>
<b>Point-of-Purchase Packaging</b> .....	<b>47-117</b>
<b>Product Selection</b>	
Non-illuminated Momentary Pushbutton Units .....	<b>47-118</b>
Pushbuttons .....	<b>47-119</b>
Illuminated Momentary Pushbutton Units .....	<b>47-122</b>
Indicating Light Units .....	<b>47-123</b>
Illuminated Pushbuttons and Indicating Lights .....	<b>47-124</b>
Push-Pull Units .....	<b>47-125</b>
Illuminated Push-Pull Units .....	<b>47-126</b>
Potentiometers .....	<b>47-128</b>
Push-Pulls .....	<b>47-129</b>
Selector Switch Units .....	<b>47-132</b>
Selector Switch Selection .....	<b>47-133</b>
Selector Switch Operators .....	<b>47-135</b>
Illuminated Selector Switch Operators .....	<b>47-138</b>
Joysticks Units .....	<b>47-139</b>
Joystick .....	<b>47-139</b>
Roto-Push® Units .....	<b>47-142</b>
Roto-Push Operators .....	<b>47-143</b>
Contact Blocks .....	<b>47-148</b>
<b>Options</b>	
Legend Plates .....	<b>47-151</b>
Enclosures .....	<b>47-153</b>
<b>Accessories</b> .....	<b>47-155</b>
<b>Renewal Parts</b> .....	<b>47-157</b>
<b>Mounting</b> .....	<b>47-159</b>
<b>Dimensions</b> .....	<b>47-160</b>
<b>Ordering Complete Devices</b> .....	<b>47-163</b>
<b>Catalog Number Structure</b> .....	<b>47-164</b>

### Product Description

The 30.5 mm pushbutton line features a zinc die cast construction with chrome-plated housing and mounting nut. The same durable construction is also available with the corrosive resistant E34 line of pushbuttons. See E34 section on Pages 47-166 – 47-189.

### Reliability Nibs

Eaton's Cutler-Hammer® contact blocks feature enclosed silver contacts with pointed "reliability nibs" for reliable performance from logic level up to 600V. To ensure reliable switching, nibs bite through oxide which can form on silver contacts, eliminating the need for expensive logic level blocks for most applications.

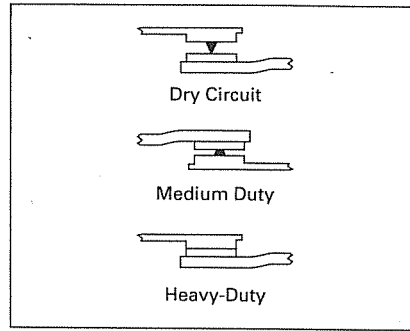
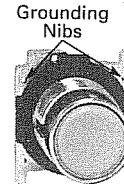


Figure 47-90. Reliability Nibs

Reliability nibs improve performance in dry circuit, corrosive, fine dust and other contaminated atmospheres. Under normal environmental conditions, the minimum operational voltage is 5V and the minimum operational current is 1 mA, AC/DC. For operation under a wider range of environmental conditions, logic level contact blocks with inert palladium tipped contacts are recommended.

### Grounding Nibs

10250T line operators have "grounding nibs" — four metal points on the operator casting designed to bite through most paints and other coatings on metal panels to enhance the ground connection when the operator is securely tightened.



Grounding Nibs

### Diaphragm Seal with Drainage Holes

#### Liquid Drainage

Eaton's Cutler-Hammer pushbutton operators offer front of panel drainage via holes in the operator bushing. Hidden from view by the mounting nut, these holes prevent buildup of liquid inside the operator, which can prevent operation in freezing environments. The holes also provide a route for escaping liquid in high pressure wash-downs, effectively relieving pressure from the internal diaphragm seal, ensuring reliable sealing in applications even beyond NEMA 4.

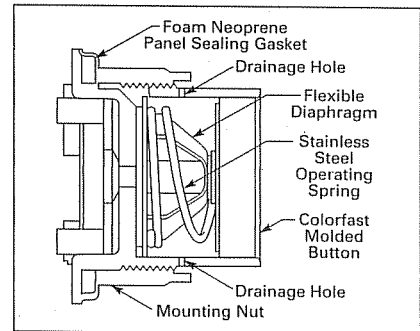
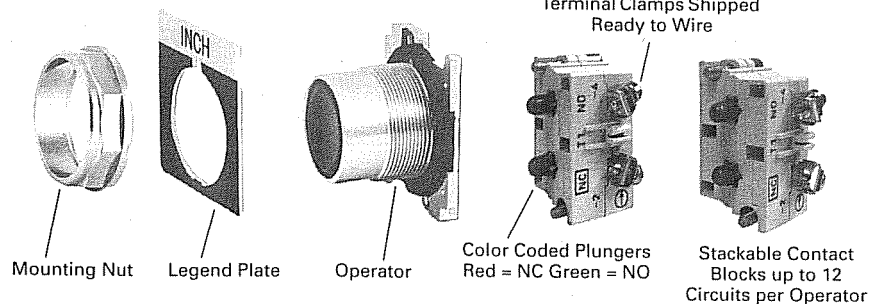


Figure 47-91. Diaphragm Seal



### 10250T Series, Technical Data and Specifications

## Features

- Heavy-duty zinc die cast construction
- Enclosed silver contacts with reliability nibs
- Diaphragm seals with drainage holes
- Grounding nibs on the operator casing

## Benefits

- Reliability nibs improve contact reliability even under dry circuit and fine dust conditions
- Drainage holes prevent buildup of liquid inside the operator which can prevent operation in freezing environments
- Grounding nibs bit through paint and other coatings to provide secure ground

## Contact Operation

Slow make and break. All normally closed contacts have positive opening operation, i.e., normally closed contacts are forced open in the event of contact weld or spring breakage.

## Standards and Certifications

- CE EN60947-5-1
- UL 508 — File No. 131568
- CSA C22.2 No. 14 — File No. LR68551

## Ingress Protection

When mounted in similarly rated enclosure —

- Standard Indicating Lights
  - UL (NEMA) Type 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
  - IEC IP65
- All Other Operators
  - UL (NEMA) Type 1, 2, 3, 3R, 4, 4X, 12, 13
  - IEC IP65

## Technical Data and Specifications

### Mechanical Ratings

- Frequency of operation
  - All pushbuttons: 6000 operations/hr.
  - Key and lever selector switches: 3000 operations/hr.
  - Auto-latch devices: 1200 operations/hr.

- Life
  - Pushbuttons: 10 x 10<sup>6</sup> operations
  - Contact blocks: 10 x 10<sup>6</sup> operations
  - PresTest units: 10 x 10<sup>6</sup> operations
  - Lever and key selector switches: 0.25 x 10<sup>6</sup> operations
  - Twist to release pushbuttons: 0.3 x 10<sup>6</sup> operations
- Shock resistance
  - Duration: 20 mS ≥ 5g

### Climate Conditions

- Operating Temperature: 1° to 150°F (-17° to 66°C)
- Storage Temperature: -40° to 176°F (-40° to 80°C)
- Altitude: 6,562 ft. (2,000m)
- Humidity: Max. 95% RH @ 60°C

### Terminals

- Marking
  - NC-NO on the contact block to meet the NEMA requirements. Dual marking system 1 – 2 for normally closed, 3 – 4 for normally open to meet BS5472 (Cenelec EN50 005)
- Clamps
  - Terminals are saddle clamp type for 1 x 22 AWG (0.34 mm<sup>2</sup>) to 2 x 14 AWG (2.5 mm<sup>2</sup>) conductors
- Torque = 7 lb-in (0.8 Nm)
- Degree of protection against direct electrical contact: IP2X with fingerproof shroud

### Light Units

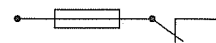
- Transformers: will withstand short circuit for 1 hour per IEC 60997-5-1
- Bulbs — average life
  - Transformer type: 20,000 hrs.
  - Resistor/direct voltage type: 2500 hrs. minimum @ rated V
  - LED: 60,000 to 100,000 hrs.

## Electrical Ratings

- Insulation: U<sub>i</sub> = 660V AC or DC
- Thermal: I<sub>th</sub> = 10A

### Short Circuit Coordination to IEC/EN 60947-5-1

- Rated conditional short circuit current: 1 kA
- Fuse type: GE Power Controls TIA 10, Red Spot Type gG, 10A, 660V AC, 460V DC, BS88-2, IEC 60269-2-1



Fuse

- UL rating: A600, P600
  - AC load life duty cycle 1200 operations/hour
    - 10A: 110V pf 0.4 – 1 x 10<sup>6</sup> operations
    - 5A: 250V pf 0.4 – 1 x 10<sup>6</sup> operations
    - 2A: 660V pf 0.4 – 1 x 10<sup>6</sup> operations
- Switching capacity
  - AC15 rated make/break (11 x I<sub>e</sub> at 1.1 x U<sub>e</sub>)
    - 6A: 120V pf 0.3
    - 4A: 240V pf 0.3
    - 2A: 660V pf 0.3
  - DC13 rated make/break (1.1 x I<sub>e</sub> at 1.1 x U<sub>e</sub>)
    - 1.0A: 125V L/R ≥ 0.95 at 300 mS
    - .55A: 250V L/R ≥ 0.95 at 300 mS
    - .1A: 660V L/R ≥ 0.95 at 300 mS
    - 10A: 110V pure resistive
- Maximum ratings for logic level and hostile atmosphere application
  - Maximum amperes: 0.5A
  - Maximum volts: 120V AC/DC

Table 47-171. Contact Block

Description	Meet or Exceed NEMA Rating Designations A600, A300 and B300 for AC and P600 for DC						
	Volts AC 50 or 60 Hz				Volts DC		
	120	240	480	600	24/28	125	250
Make and Emerg. Interrupting Capacity (Amp)	60	30	15	12	5.7	1.1	0.55
Normal Load Break (Amp)	6	3	1.5	1.2	5.7	1.1	0.55
Thermal Current (Amp)	10	10	10	10	5.0	5.0	5.0
Voltamperes:							
Make and Emerg. Interrupting Capacity	7200	7200	7200	7200	138	138	138
Normal Load Break	720	720	720	720	138	138	138

### Point-of-Purchase Packaged Pilot Devices


**Table 47-172. 10250T Point-of-Purchase Packaged Pilot Devices**

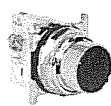
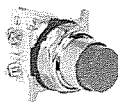
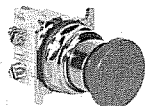

Product	Description	Catalog Number	Price U.S. \$
<b>Emergency Stop Operators</b>			
Red Non-illuminated Push-Pull	1NO-1NC contact block. Also includes two square engraved legend plates: EMERG. STOP and STOP.	10250T5B62-1-POP	
Red Mushroom Pushbutton	1NO-1NC contact block. Also includes two square engraved legend plates: EMERG. STOP and STOP.	10250T32R-POP	
Red Jumbo Mushroom Pushbutton	Engraved EMERG. STOP with 1NO-1NC contact block.	10250T33-POP	
<b>Momentary Pushbuttons</b>			
Black Flush Pushbutton	1NO-1NC contact block. Also includes two square engraved legend plates: START and JOG.	10250T30B-POP	
Red Extended Pushbutton	1NO-1NC contact block. Also includes one square engraved legend plate: STOP.	10250T31R-POP	
<b>Indicating Lights</b>			
Red Indicating Light	Full voltage 24V AC/DC with two extra lenses: Green and Amber. Also includes two square engraved legend plates: RUN and JOG.	10250T206NC1N-POP	
Red Indicating Light	Resistor 120V AC/DC with two extra lenses: Green and Amber. Also includes one square engraved legend plate: RUN and JOG.	10250T34R-POP	
<b>Illuminated Pushbuttons</b>			
Red Illuminating Pushbutton	Full voltage 24V AC/DC with 1NO-1NC contact block and two extra lenses: Green and Amber. Also includes one square engraved legend plate: POWER ON.	10250T476C21-1-POP	
Red Illuminating Pushbutton	Resistor 120V AC/DC with 1NO-1NC contact block and two extra lenses: Green and Amber. Also includes one square engraved legend plate: POWER ON.	10250T411C21-1-POP	
<b>Selector Switches</b>			
Black Knob Two-Position Selector Switch	1NO-1NC contact block. Also includes three square engraved legend plates: OFF/ON, HAND/AUTO and RUN/JOG.	10250T20KB-POP	
Black Knob Three-Position Selector Switch	1NO-1NC contact block. Also includes 1 square engraved legend plate: HAND/OFF/AUTO.	10250T22KB-POP	

**Product Selection**

**Non-illuminated Momentary Pushbutton Units**

- Flush, Extended, Mushroom Head or Jumbo Mushroom Head Operators

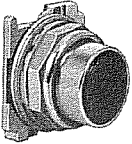
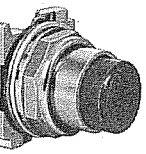
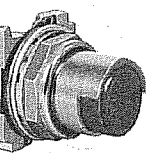
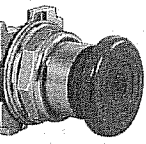
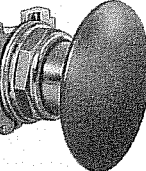
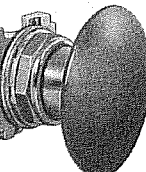
**Table 47-173. Pushbutton Units — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Contact Type	Button Color	Flush Button		Extended Button		Mushroom Button		Jumbo Mushroom <sup>①</sup>			
		 Flush Button — Black Cat. No. 10250T23B	 Extended Button — Red Cat. No. 10250T31R	 Mushroom Button — Red Cat. No. 10250T32R	 Jumbo Mushroom — Red Cat. No. 10250T17213-3	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
1NO	Black Red Green Yellow Red — Engraved EMERG. STOP	10250T23B 10250T23R 10250T23G 10250T23Y —	—	10250T25B 10250T112-53 10250T25G 10250T25Y —	—	10250T26B 10250T122-53 10250T26G 10250T26Y —	—	10250T27B 10250T172-53 10250T27G 10250T27Y 10250T17213-3	—	—	—
1NC	Black Red Green Yellow Red — Engraved EMERG. STOP	10250T101-51 10250T102-51 10250T103-51 10250T104-51 —	—	10250T111-51 10250T25R 10250T113-51 10250T120-51 —	—	10250T121-51 10250T26R 10250T123-51 10250T124-51 —	—	10250T171-51 10250T27R 10250T173-51 10250T174-51 10250T29	—	—	—
1NO-1NC	Black Red Green Yellow Red — Engraved EMERG. STOP	10250T30B 10250T30R 10250T30G 10250T30Y —	—	10250T31B 10250T31R 10250T31G 10250T31Y —	—	10250T32B 10250T32R 10250T32G 10250T32Y —	—	10250T33B 10250T33R 10250T33G 10250T33Y 10250T33	—	—	—
2NO	Black Red Green Yellow Red — Engraved EMERG. STOP	10250T101-2 10250T102-2 10250T103-2 10250T104-2 —	—	10250T111-2 10250T112-2 10250T113-2 10250T120-2 —	—	10250T121-2 10250T122-2 10250T123-2 10250T124-2 —	—	10250T171-2 10250T172-2 10250T173-2 10250T174-2 10250T17213-2	—	—	—
2NC	Black Red Green Yellow Red — Engraved EMERG. STOP	10250T101-3 10250T102-3 10250T103-3 10250T104-3 —	—	10250T111-3 10250T112-3 10250T113-3 10250T120-3 —	—	10250T121-3 10250T122-3 10250T123-3 10250T124-3 —	—	10250T171-3 10250T172-3 10250T173-3 10250T174-3 10250T17213-3	—	—	—

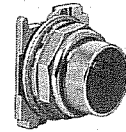
① Anodized aluminum head is not suitable for use in ultraviolet light applications.

### Pushbuttons

**Table 47-174. Momentary Pushbutton Operators, Non-illuminated — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

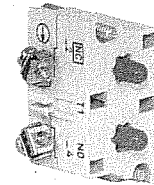
	Color	Catalog Number	Price U.S. \$		
<b>Flush Button ①</b>					
	Black	10250T101			
	Red	10250T102			
	Green	10250T103			
	Yellow	10250T104			
	Gray	10250T105			
	White	10250T106			
	Blue	10250T108			
	Orange	10250T109			
	<b>Extended Button</b>				
	Black	10250T111			
	Red	10250T112			
	Green	10250T113			
	Yellow	10250T120			
	White	10250T116			
	Blue	10250T118			
	Orange	10250T119			
	<b>Half Shrouded Button</b>				
		<b>Vertical</b>	<b>Horizontal</b>		
	Black	10250T501	10250T511		
	Red	10250T502	10250T512		
	Green	10250T503	10250T513		
	Yellow	10250T504	10250T514		
	Gray	10250T505	10250T515		
	White	10250T506	10250T516		
	Blue	10250T508	10250T518		
	Orange	10250T509	10250T519		
	<b>Mushroom Button</b>				
		Black	10250T121		
		Red	10250T122		
Green		10250T123			
Yellow		10250T124			
Blue		10250T129			
<b>Jumbo Mushroom Button ②</b>					
	Black	10250T171			
	Red	10250T172			
	Red (EMERG. STOP)	10250T17213			
	Green	10250T173			
	Yellow	10250T174			
<b>Low Operating Force — Jumbo Mushroom ③</b>					
	Black	10250ED1164-2			
	Red	10250ED1164-3			
	Green	10250ED1164-4			
	Yellow	10250ED1164-5			
	Clear	10250ED1164			

**Note:** To order complete assembled unit using one composite Catalog Number, add Contact Block and Legend Plate Suffix to the end of Operator Catalog Number.  
Example: 10250T101-1TS33



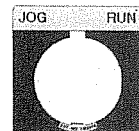
**Operator  
10250T101**

+



**Contact Block  
10250T1**

+



**Legend Plate  
10250TS33**

① To order operator with factory assembled Extended Retaining Nut, 10250TA12, for thick panel applications, add Suffix Letter E to listed Catalog Number. Example: 10250T101E

② Anodized aluminum head is not suitable for use in ultraviolet light applications.

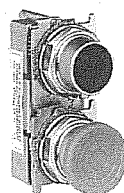
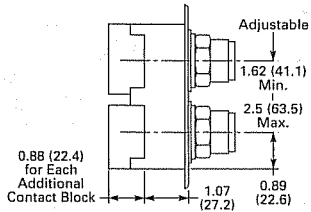
③ Operating Force — Standard = 2.4 lb; Low Force = 1.6 lb.

Accessories .....	Pages 47-155 – 47-156
Contact Blocks .....	Page 47-148
Dimensions .....	Pages 47-160 – 47-162
Enclosures .....	Pages 47-153 – 47-154
Legend Plates .....	Pages 47-151 – 47-152
Discount Symbol .....	1CD1C

### 10250T Series, Interlocked and Padlockable Components

#### Pushbuttons (Continued)

Table 47-175. Mechanically Interlocked Pushbutton Operators — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

	Description	Catalog Number	Price U.S. \$	Overall Dimensions in Inches (mm)
	Minimum hole centers 1.62", maximum 250". Mounts in extra deep enclosures only. Black flush and green flush Black flush and long red Black flush and red mushroom head Black flush and lock-down red mushroom head	10250TA66 10250TA67 10250TA68 10250TA69 ①		
	Black flush and red jumbo mushroom head Green flush and long red Black long and long red Green flush and red mushroom head Green flush and black flush	10250TA76 10250TA72 10250TA73 10250TA77 10250TA75		

① NC contacts must be mounted behind lock-down mushroom head operator to ensure lockout.

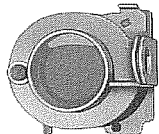
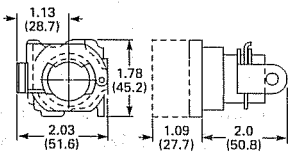
#### Lockout Pushbutton Operators with Padlock Attachments

The following pushbutton and mushroom operators include an integral padlock attachment for applications requiring lockout/tagout of specific machine functions. They are available in styles which allow locking of a button in the down position

(stopped position) or locking a button in the up position (to prevent starting). Select the "Hand" latch type which functions as a momentary pushbutton until the operator presses the button and moves the padlock attachment into position for locking, or choose the

"Spring Loaded" latch type where the padlock attachment springs into place when the button is pressed. Units accept a customer supplied 1/4" padlock.

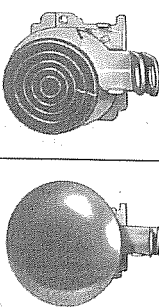
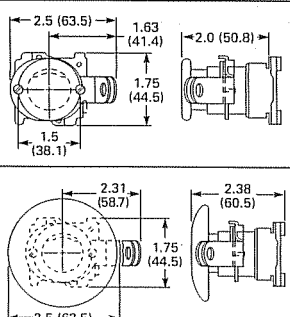
Table 47-176. Padlockable in the Down Position ② — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

	Operator Type	Color	Latch Type	Catalog Number	Price U.S. \$	Overall Dimensions in Inches (mm)
	Flush Head	Red	Hand	10250TA16		
	Mushroom Head	Red Red	Hand Spring Loaded	10250TA42 10250TA45		
	Jumbo Head ③	Red Red Red (EMERG. STOP)	Hand Spring Loaded Spring Loaded	10250TA52 10250TA55 10250ED952		

② Operators can be latched down without a padlock. Padlock not included.

③ Jumbo mushroom heads are not recommended for use in applications where exposure to ultraviolet light exists.

Table 47-177. Padlockable in the Up Position ④ — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

	Operator Type	Color	Latch Type	Catalog Number	Price U.S. \$	Overall Dimensions in Inches (mm)
	Mushroom Head	Black Green	Hand Hand	10250TA41 10250TA43		
	Jumbo Mushroom Head ⑤	Black Green Yellow	Hand Hand Hand	10250TA51 10250TA53 10250TA54		

④ Operators can be latched down without a padlock. Padlock not included.

⑤ Jumbo mushroom heads are not recommended for use in applications where exposure to ultraviolet light exists.

**Note:** Hand Attachment must be manually moved into place for locking. Spring Loaded: when operator is pressed — attachment springs into place. Must be moved manually to release button.

### Pushbuttons (Continued)

#### Key Pushbutton Operator

These devices incorporate an integral locking mechanism which enables locking units in various positions (**Locked Down**), locking units to prevent operation (**Locked Up**) or setting unit to lock when the button is pressed (**Push to Lock**), requiring the key to be inserted to return to normal operation. With the key in the center position, these operators function as a normal momentary pushbutton (**Free**).




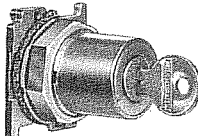
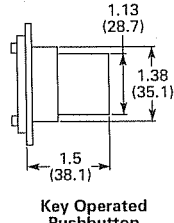
#### Replacement Keys or Dissimilar Locks for Key Operators Below

Listed operators have identical locks and keys (Key Code H661) Catalog Number 10250ED824. For dissimilar lock and key combinations, see listing on **Page 47-136**.

Table 47-178. Replacement Keys

Description	Catalog Number	Price U.S. \$
Replacement Keys (Code H661)	10250ED824	

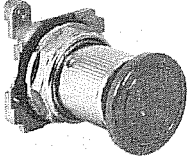
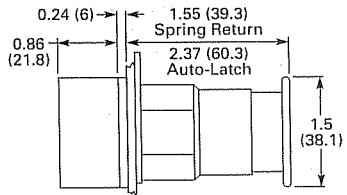
Table 47-179. Key Pushbutton Operator — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

	Key Position and Pushbutton Operations			Key Removal Positions	Vertical Mounting ①		Overall Dimensions in Inches (mm)	
					Catalog Number	Price U.S. \$		
	<b>3-Position</b>							
	Lock Up	Free	Lock Down	All	10250T430			
	Lock Up	Free	Lock Down	L and R	10250T431			
	Lock Up	Free	Lock Down	C and R	10250T432			
	<b>2-Position</b>							
	Lock Up	Free	—	L and C	10250T433			
	Lock Up	Free	—	L	10250T434			
	—	Free	Lock Down	C and R	10250T435			
	—	Free	Lock Down	R	10250T436			
	—	Free	Push to Lock	C and R	10250T437			
—	Free	Push to Lock	R	10250T438				

① Horizontal mounting available on request.

#### Latch-In, Twist-to-Release Operator

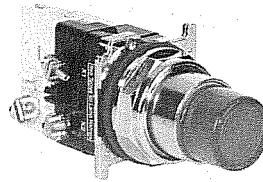
Table 47-180. Operator Only with Button — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

Description	Catalog Number	Price U.S. \$	Dimensions in Inches (mm)
 Latch-In, Twist-to-Release Operator with Red Mushroom Head Button	10250ED1043-4		

10250T Series, Assembled Devices — Illuminated Pushbutton Units

### Illuminated Momentary Pushbutton Units

- LED or Incandescent
- Full Voltage, Resistor or Transformer Type
- Plastic Lenses



**24V Full Voltage  
Illuminated Pushbutton — Red**  
Catalog Number 10250T476C21-53

**Table 47-181. Illuminated Pushbutton Units — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Lamp	Type	Voltage	Color	Illuminated Pushbutton						LED/Lamp Number			
				1NO		1NO-1NC		1NC					
				Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$				
LED	Full Voltage	24V AC/DC	Red	10250T397LRD24-53		10250T397LRD24-1		10250T397LRD24-51		Bayonet Base			
			Green	10250T397LGD24-53		10250T397LGD24-1		10250T397LGD24-51					
			Amber	10250T397LAD24-53		10250T397LAD24-1		10250T397LAD24-51					
			Yellow	10250T397LYD24-53		10250T397LYD24-1		10250T397LYD24-51					
			Blue	10250T397LLD24-53		10250T397LLD24-1		10250T397LLD24-51					
			White	10250T397LWD24-53		10250T397LWD24-1		10250T397LWD24-51					
	120V AC	Red	10250T397LRD2A-53		10250T397LRD2A-1		10250T397LRD2A-51						
		Green	10250T397LGD2A-53		10250T397LGD2A-1		10250T397LGD2A-51						
		Amber	10250T397LAD2A-53		10250T397LAD2A-1		10250T397LAD2A-51						
Transformer	120V AC	Red	10250T411LRD06-53		10250T411LRD06-1		10250T411LRD06-51						
		Green	10250T411LGD06-53		10250T411LGD06-1		10250T411LGD06-51						
		Amber	10250T411LAD06-53		10250T411LAD06-1		10250T411LAD06-51						
Incandescent	Full Voltage	24V AC/DC	Red	10250T476C21-53		10250T476C21-1		10250T476C21-51		#757			
			Green	10250T476C22-53		10250T476C22-1		10250T476C22-51					
			Amber	10250T476C43-53		10250T476C43-1		10250T476C43-51					
			Yellow	10250T476C23-53		10250T476C23-1		10250T476C23-51					
			Blue	10250T476C24-53		10250T476C24-1		10250T476C24-51					
			Clear	10250T476C25-53		10250T476C25-1		10250T476C25-51					
			White	10250T476C26-53		10250T476C26-1		10250T476C26-51					
			Resistor	120V AC/DC	Red	10250T471C21-53		10250T471C21-1			10250T471C21-51		120MB
					Green	10250T471C22-53		10250T471C22-1			10250T471C22-51		
	Amber	10250T471C43-53				10250T471C43-1		10250T471C43-51					
	Yellow	10250T471C23-53				10250T471C23-1		10250T471C23-51					
	Blue	10250T471C24-53				10250T471C24-1		10250T471C24-51					
	Clear	10250T471C25-53				10250T471C25-1		10250T471C25-51					
	White	10250T471C26-53				10250T471C26-1		10250T471C26-51					
	Transformer	120V AC			Red	10250T75R ①		10250T76R ①		10250T77R ①		#755	
					Green	10250T75G ①		10250T76G ①		10250T77G ①			
			Amber	10250T75A ①		10250T76A ①		10250T77A ①					
			Yellow	10250T75Y ①		10250T76Y ①		10250T77Y ①					
			Blue	10250T75B ①		10250T76B ①		10250T77B ①					
			Clear	10250T75C ①		10250T76C ①		10250T77C ①					
			White	10250T75W ①		10250T76W ①		10250T77W ①					

① For flashing module Catalog Number 10250TFL1, add Suffix Code FM to listed Catalog Number. Example: 10250T75RFM.



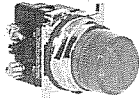
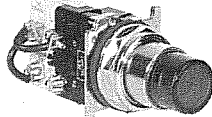
### 10250T Series, Assembled Devices — Indicating Light Units

#### Indicating Light Units

- LED or Incandescent
- Full Voltage, Resistor or Transformer Type
- Standard and PresTest Types
- Plastic Lenses

PresTest — This device incorporates a press-to-test feature whereby depressing the lens disconnects the light from the source being monitored and connects the lamp to a continuously energized circuit for immediate detection of faulty lamps.

**Table 47-182. Indicating Light Units — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13 ①**

Lamp	Type	Voltage	Color	Indicating Light		PresTest		LED/Lamp Number
								
				24V Full Voltage Indicating Light — Red Catalog Number 10250T206NC1N		120V AC Transformer PresTest — Green Catalog Number 10250T74NG		
				Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	
LED	Full Voltage	24V AC/DC	Red	10250T197LRP24		10250T297LRP24		Bayonet Base
			Green	10250T197LGP24		10250T297LGP24		
	Amber	10250T197LAP24		10250T297LAP24				
	Yellow	10250T197LYP24		10250T297LYP24				
	Blue	10250T197LLP24		10250T297LLP24				
	White	10250T197LWP24		10250T297LWP24				
		120V AC	Red	10250T197LRP2A		10250T297LRP2A		
			Green	10250T197LGP2A		10250T297LGP2A		
			Amber	10250T197LAP2A		10250T297LAP2A		
			Yellow	10250T197LYP2A		10250T297LYP2A		
			Blue	10250T197LLP2A		10250T297LLP2A		
			White	10250T197LWP2A		10250T297LWP2A		
	Transformer	120V AC	Red	10250T181LRP06		10250T221LRP06		
			Green	10250T181LGP06		10250T221LGP06		
			Amber	10250T181LAP06		10250T221LAP06		
			Yellow	10250T181LYP06		10250T221LYP06		
			Blue	10250T181LLP06		10250T221LLP06		
			White	10250T181LWP06		10250T221LWP06		
Incandescent	Full Voltage	24V AC/DC	Red	10250T206NC1N		10250T235NC21		#757
			Green	10250T206NC2N		10250T235NC22		
			Amber	10250T206NC19N		10250T235NC43		
				Yellow	10250T206NC3N		10250T235NC23	
				Blue	10250T206NC4N		10250T235NC24	
				Clear	10250T206NC5N		10250T235NC25	
				White	10250T206NC6N		10250T235NC26	
	Resistor	120V AC/DC	Red	10250T201NC1N		10250T231NC21		120MB
			Green	10250T201NC2N		10250T231NC22		
Amber			10250T201NC19N		10250T231NC43			
			Yellow	10250T201NC3N		10250T231NC23		
			Blue	10250T201NC4N		10250T231NC24		
			Clear	10250T201NC5N		10250T231NC25		
			White	10250T201NC6N		10250T231NC26		
Transformer ②	120V AC	Red	10250T34R		10250T74NR		#755	
		Green	10250T34G		10250T74NG			
		Amber	10250T34A		10250T74NA			
			Yellow	10250T34Y		10250T74NY		
			Blue	10250T34B		10250T74NB		
			Clear	10250T34C		10250T74NC		
			White	10250T34W		10250T74NW		

① Standard indicating lights are rated UL (NEMA) 3S as well.

② For flashing lamp add letter F to listed Catalog Number. Example: 10250T34RF.

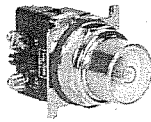
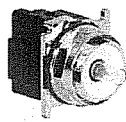
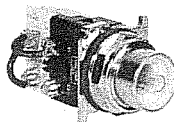
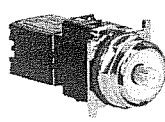
Accessories .....	Pages 47-155 – 47-156
Dimensions .....	Pages 47-160 – 47-162
Enclosures .....	Pages 47-153 – 47-154
Legend Plates .....	Pages 47-151 – 47-152
Replacement Lamps/LEDs .....	Page 47-157
Discount Symbol .....	1CD1C

10250T Series, Illuminated Components

## Illuminated Pushbuttons and Indicating Lights

- LED or Incandescent
- Full Voltage, Resistor or Transformer Type

Table 47-183. Operators without Lens

Light Unit Type	Type	Voltage	Illuminated Pushbutton		Indicating Light		PresTest		Master Test		LED/Lamp Number	
												
			Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$		
Incandescent	Full Voltage AC/DC	6	10250T473		10250T203N		10250T232N		—		#755	
		12	10250T474		10250T204N		10250T233N		—		#756	
		24	10250T476		10250T206N		10250T235N		—		#757	
		32	10250T477		10250T207N		10250T238N		—		#1828	
		48	10250T478		10250T208N		10250T239N		—		#1835	
	Resistor <sup>②</sup> AC/DC	120	10250T471		10250T201N		10250T231N		—		120MB	
		240	10250T472		10250T202N		10250T240N		—		120MB	
	Transformer AC Only <sup>③</sup>	24	10250T416		—		—		—	10250T187N		#755
		120	10250T411		10250T181N		10250T221N		—			
		240	10250T422		10250T182N		10250T222N		—			
		277	10250T419		10250T198N		—		—			
		380	10250T413		10250T183N		10250T223N		—			
		480	10250T414		10250T184N		10250T224N		—			
	Neon <sup>④</sup> AC/DC	120	—		10250T226N		—		—			NE51H-R22
		240	—		10250T227N		—		—			NE51H-R68
Solid-State 50/60 Hz Only	120	—		—		—		10250T189N			120MB	
LED (LEDs not included) <sup>①</sup>	Full Voltage	—	10250T397L		10250T197L		10250T297L		—		Bayonet Base	
		24	10250T416L		—		—		—			
	Transformer AC Only	120	10250T411L		10250T181L		10250T221L		—			
		240	10250T412L		10250T182L		10250T222L		—			
		277	10250T419L		10250T198L		—		—			
		380	10250T413L		10250T183L		10250T223L		—			
		480	10250T414L		10250T184L		10250T224L		—			
600	10250T415L		10250T185L		10250T225L		—					

47

① These units do not include lamps. Order LED separately to match lens color. See Page 47-157 for LED Selection and Page 47-165 for Catalog Numbering System.

② Resistor units are not available for use with LEDs, choose either transformer or full voltage LED style.

③ For flashing lamp, add letter F to listed Catalog Number. Example: 10250T181NF.

④ Resistant to shock and vibration. For best illumination use amber, yellow or clear lens.

Table 47-184. Indicating and Master Test Lenses



	Color	Plastic		Glass	
		Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
 Plastic	Red	10250TC1N		10250TC7N	
	Green	10250TC2N		10250TC8N	
	Amber	10250TC19N		10250TC9N	
	Yellow	10250TC3N		—	
	Blue	10250TC4N		10250TC10N	
	Clear	10250TC5N		10250TC11N	
 Glass	White	10250TC6N		10250TC12N	

Table 47-186. PresTest Lenses




	Color	Plastic		Glass	
		Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
 Plastic	Red	10250TC21		10250TC13N	
	Green	10250TC22		10250TC14N	
	Amber	10250TC43		10250TC15N	
	Yellow	10250TC23		—	
	Blue	10250TC24		10250TC16N	
	Clear	10250TC25		10250TC17N	
 Glass	White	10250TC26		10250TC18N	

Table 47-185. Illuminated Pushbutton Lenses

	Color	Catalog Number	Price U.S. \$
	Red	10250TC21	
	Green	10250TC22	
	Yellow	10250TC23	
	Amber	10250TC43	
	Blue	10250TC24	
	Clear	10250TC25	
	White	10250TC26	

### Push-Pull Units

- Two- and Three-Position
- Non-illuminated

**Table 47-187. 2-Position Push-Pull Units — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

	Operator Position ①		Button Type/Color ②	Push-Pull		Contact Type	Mounting Location	
	Pull	Push		Catalog Number	Price U.S. \$		A	B
	O X	X O	40 mm/Red	10250T5B62-1X		1NO 1NC		
	O X	X O	40 mm Engraved EMERG. STOP/Red	10250T5B63-1X		1NO 1NC		
	O X	X O	65 mm Alum. Engraved EMERG. STOP/Red	10250T5J63-1X		1NO 1NC		
	O X	X O	65 mm Alum. Engraved EMERG. STOP/Red Special Security Jumbo Mushroom Head	10250ED1080-2		1NO 1NC		

**Table 47-188. 3-Position Pull-Pull Units — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Operator Position ①			Button Type/Color ②	Push-Pull		Contact Type	Mounting Location	
Pull	Intermediate	Push		Catalog Number	Price U.S. \$		A	B
X X	O X	O O	40 mm/Black 40 mm/Red 40 mm Engraved EMERG. STOP/Red	10250T9B60-3X 10250T9B62-3X 10250T9B63-3X		1NC 1NC		
X X	O X	O O	40 mm/Black 40 mm/Red	10250T4B60-3X 10250T4B62-3X		1NC 1NC		
O X	O O	X O	40 mm/Black 40 mm/Red	10250T10B60-1X 10250T10B62-1X		1NO 1NC		

① X = closed circuit, O = open circuit.

 ② To order different type or color buttons, substitute the underlined characters with appropriate Suffix Code from the table below.  
 Example: 10250T5B64-1X.

**Table 47-189. Button and Color Selection Table**

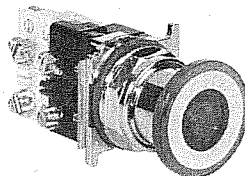
Standard — 40 mm	Color	Suffix Code	Catalog Number	Price U.S. \$	Jumbo Mushroom Head ③ (Anodized) Aluminum — 65 mm	Color	Suffix Code	Catalog Number	Price U.S. \$
	Red Red (EMERG. STOP) Green Black Blue	B62 B63 B61 B60 B64	10250TB62 10250TB63 10250TB61 10250TB60 10250TB64			Red Red (EMERG. STOP) Green Black Yellow	J62 J63 J61 J60 J64	10250TJ62 10250TJ63 10250TJ61 10250TJ60 10250TJ64	

③ Anodized aluminum head is not suitable for use in ultraviolet light applications.

## 10250T Series, Assembled Devices — Illuminated Push-Pull Units

### Illuminated Push-Pull Units

- LED or Incandescent
- Full Voltage, Resistor or Transformer Type
- Two-Position Maintained



*2-Position Push-Pull Operator with Red Button (Standard) and Full Voltage Light Unit*

**Table 47-190. 2-Position Illuminated Maintained Push, Maintained Pull — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Operator Position ①		Lamp	Type	Voltage	Red Standard Push-Pull ②		Contact Type	Mounting Location		LED/Lamp Number
Maintained — Pull	Maintained — Push				Catalog Number	Price U.S. \$		A	B	
		LED	Full Voltage	24V AC/DC	<u>10250T597LRD</u> 24-1X		1NO 1NC			Bayonet Base
O X	X O			120V AC/DC	<u>10250T597LRD</u> 2A-1X					
O X	X O		Transformer	24V AC	<u>10250T589LRD</u> 06-1X					
				120V AC	<u>10250T563LRD</u> 06-1X					
O X	X O	Incandescent	Full Voltage	24V AC/DC	<u>10250T579C</u> 47-1X		1NO 1NC			#757
				120V AC/DC	<u>10250T580C</u> 47-1X					120MB
			Transformer	24V AC	<u>10250T589C</u> 47-1X			#755		
				120V AC	<u>10250T563C</u> 47-1X					

① X = closed circuit, O = open circuit.

② To order different type or color lens, substitute the underlined characters with appropriate Suffix Code from table below. Example: 10250T579C63-1X. For LEDs with different voltages see ordering example on Page 47-131.

**Table 47-191. Lens and Color Selection Table**









Type	Lens Color	Incand. Suffix Code	LED Suffix Code	Catalog Number	Price U.S. \$
Standard — 40 mm 	Red	C47	RD	10250TC47	
	Red (EMERGENCY STOP)	C53	ED	10250TC53	
	Green	C48	GD	10250TC48	
	Blue	C49	LD	10250TC49	
	Amber	C50	AD	10250TC50	
	White	C51	WD	10250TC51	
	Clear	C52	CD	10250TC52	
	Side-Lighted Aluminum — 40 mm ③ 	Red	C57	RS	10250TC57
Red (EMERGENCY STOP)		C63	ES	10250TC63	
Green		C58	GS	10250TC58	
Blue		C59	LS	10250TC59	
Amber		C64	AS	10250TC64	
Yellow		C60	YS	10250TC60	
White		C61	WS	10250TC61	
Clear		C62	CS	10250TC62	
Aluminum Transparent Center — 40 mm ③ 	Red	C65	RH	10250TC65	
	Green	C66	GH	10250TC66	
	Amber	C67	AH	10250TC67	

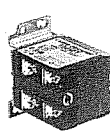
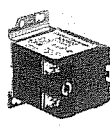









③ Clear anodized aluminum and colored lens.

Accessories . . . . . Pages 47-155 – 47-156  
 Additional Light Units . . . . . Page 47-131  
 Dimensions . . . . . Pages 47-160 – 47-162  
 Enclosures . . . . . Pages 47-153 – 47-154  
 Legend Plates . . . . . Pages 47-151 – 47-152  
 Replacement  
   Lamps/LEDs . . . . . Page 47-157  
 Discount Symbol . . . . . 1CD1C

10250T Series, Accessories

Table 47-250. Accessories (Continued)

Description	Catalog Number	Price U.S. \$
<b>Hardware and Kits (Continued)</b>		
 <b>Base Mounting Spacers</b> ① — Equivalent to contact block in depth — Complete with screws, washers, etc.	1 Block Deep 2 Block Deep	10250TA22 10250TA23
 <b>Grounding Kits</b> — Kits consist of a ring connector and a #6 screw for mounting connector to rear of contact block mounting screw.		10250TKG1 10250TKG2 ② 10250TKG3 ②
 <b>Contact Block Terminal Jumpers</b> — Available in multiples of 100 only. Term. to Term. — within Block (short) 100 per pkg. 1000 per pkg. Term. to Term. — Block to Block (long) 100 per pkg. 1000 per pkg.		10250TA70 10250TA70-2 10250TA71 10250TA71-2
<b>Special Operators and Attachments</b>		
 <b>Wobble Stick</b> Complete with retaining nut — fits standard button.		10250TA5
 <b>Lever Operator</b> For use with two vertically mounted flush pushbuttons.		10250TA14
 <b>Maintained Contact Attachment Release Button Assembly</b> ② Mechanically interlocks with another pushbutton and contact block (not included). Provides mode indication. Minimum hole centers 1.62 inch (41.1 mm), maximum 2.313 inch (58.8 mm). Black Red Green Yellow Same with Long Button — Black		10250TA17 10250TA18 10250TA19 10250TA20 10250TA39
 <b>Maintained Contact Attachment</b> ② Mechanically interlocks two buttons and provides position indication for one. Use with two pushbutton operators and one or more contact blocks.		10250TA1
 <b>Roto-Push Lever Operator</b> — Used to provide lever operation for Roto-Push operators.		10250TA13

Description	Catalog Number	Price U.S. \$
<b>Special Light Modules</b>		
 <b>Master Test (Dual Input) Module</b> — Internal Form C relay suitable for either AC or DC applications. Total electrical isolation between monitored and test circuit. Fits all illuminated 10250T, E22, E30 and E34 devices. 24V AC 120V AC 24V DC 48V DC		10250TMT2 10250TMT1 10250TMT7 10250TMT8
 <b>Flasher Module</b> — Changes any AC illuminated device to a controlled flashing light. Fits 10250T, E30 and E34 devices. 24V 120V		10250TFL2 10250TFL1
 <b>Flashing Incandescent Lamp</b> — For use with 120V transformer type or 6V full voltage type Indicating Lights including PresTest and most E29 devices.		10250ED986-4
<b>Hole Plugs</b>		
 <b>Plug</b> — For unused holes — Steel, painted gray (Stainless steel, use E30KT5, see Page 47-112)		10250TA7
<b>Tools</b>		
 Octagonal 10250T (notched to fit over selector switch lever), E29 and E30		10250TA95
 E22, E30, E34 and Octagonal 10250T (will not fit over selector switch levers)		E22CW
 <b>Tool for Tightening Boots</b> — Used to install boot Catalog Numbers, 10250TA3, A4, A10 and A25.		10250TA96
 <b>10250T, E34 Allen Wrench</b> — Used for removal of jumbo mushroom head.		10250TA102
 <b>Lamp Removal Tools</b> — For transformer type illuminated pushbuttons, push-pull and selector switches. Fits #12 lamp.		10250TA74
 For full voltage and resistor type illuminated pushbuttons, push-pull and selector switches and E30.		E30KV1
 Standard indicating lights. Fits #44, #755, #6S6 and #10S6.		E29KLT








① Component only. Not to be used for custom built (factory assembled) stations.





② Not suitable for single contact block depth cast enclosure. Cover is too thick.

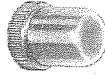


### Accessories

Padlocks not included with padlocking attachments. For operators with built-in padlock attachment, see **Page 47-120**.

**Table 47-250. Accessories**

	Description	Catalog Number	Price U.S. \$
<b>Padlock Attachments</b>			
	<b>Padlocking Attachment for Flush Pushbutton Operators</b> Permits locking NC contacts in open position with 1/4" padlock. Will not lock NO contact.	10250TA2	
	<b>Padlocking Attachment for Use with Extended Pushbutton</b> Permits locking NC contacts in open position with 1/4" padlock.	10250TA26	
	<b>Padlocking Cover Guard</b> Cover locked over flush button makes it inaccessible or on extended button locks NC contacts open. Takes 1/4" shank size padlock.	10250TA36	
	<b>Padlock Hasp or Flip-Up Guard</b> When used with a 1/4" padlock, makes flush and long button and knob selector switch inaccessible, but not locked down. Without the padlock, it is a flip-up guard. Padlock hasp can be removed before assembly.	10250TA38	
	<b>Padlocking Attachment for Use with Flexible Weather Resistant Boot</b> Used on long button operators. Stainless steel. Use only for locking NC contacts open.	10250TA63	
	<b>Padlock Attachment</b> For use with Illuminated Push-buttons and maintained Push-Pull operators having standard button or lens only. Use 1/4" padlock. Locks in down position only.	10250TA64	
	<b>Padlocking Attachment for Non-Illuminated Knob Selector Switches</b> Provision for up to 5, 1/4" padlocks.	10250TA11	

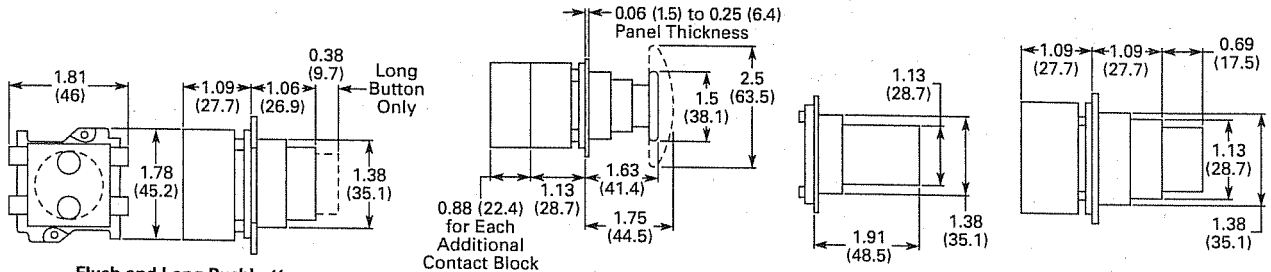
<b>Shrouds and Guards</b>			
	<b>Shroud for Mushroom Head Operator</b> Prevents accidental operation. (Not for push-pull operators.)	10250TA6	
	<b>Extended Retaining Nut</b> Replaces standard nut and provides guard for flush head push-button operators.	10250TA12	
	<b>Guard for Illuminated Pushbutton</b>	10250TA15	
	<b>Shroud</b> For jumbo mushroom head operator. Gray Yellow	10250TA56 10250TA56Y	
	<b>Half Shroud - Yellow</b> For jumbo mushroom head operator.	10250ED1241	
	<b>Fingerproof Shroud —</b> 10 per Package Fits new style contact blocks and light units.	10250TA101	

	Description	Catalog Number	Price U.S. \$
<b>Boots</b>			
	<b>Flexible Weather Resistant Boot</b> For use with button operators (extended buttons preferred). Temperature to -25°F (-32°C) Black Red Green (See <b>Page 47-156</b> for 10250TA96 Tightening Tool.)	10250TA3 10250TA4 ① 10250TA10	
	<b>Transparent Boot</b> For regular illuminated pushbutton operators and PresTest — Temperature to -38°F (-39°C) ②	10250TA25	
	<b>Boot for Flush Pushbutton</b> Clear Black Red Green	10250TA46 10250TA47 10250TA48 10250TA49	

<b>Hardware and Kits</b>			
	<b>Thrust Washers —</b> To meet Ford Motor Co. mounting specifications.	10250TK3	
	<b>Contact Block Tape Seal —</b> Seals plunger openings on last contact block. Order in multiples of 10 pieces.	10250TK5	
	<b>Selector Switch Operator Gasket —</b> Seals out dust from getting in-between the cam and contact block plungers. Supplied as standard with all selector switches.	56-9337	
	<b>Special Retaining Nut —</b> to accommodate thick panel: Indicating lights PresTest, pushbuttons and selector switches	10250TA30 10250TA31	
	<b>Terminal Block —</b> Two terminals, each will accommodate two wire terminations.	10250TA62	
	<b>Spacer Ring —</b> Used when legend plate is not required.	10250TA8	
	<b>Stacking Screw —</b> Replaces transformer mounting screws on indicating light so terminal block 10250TA62 can be mounted to light to support and connect a series resistor. This screw also fits all contact blocks. Order in multiples of 10.	10250TA79	

- ① Should not be used on flush button for STOP function.
- ② Not suitable for single contact block depth cast enclosure. Cover is too thick.

Dimensions

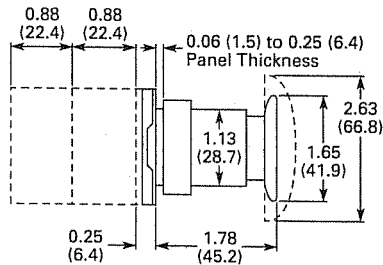


**Flush and Long Pushbutton**  
Half Shroud Is Same as Long Pushbutton  
with Lower Half of Guard Ring Cut Back

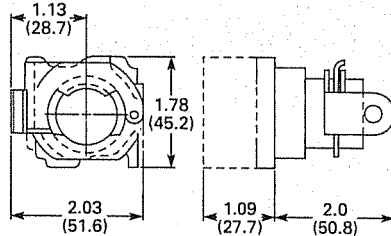
**Mushroom and  
Jumbo Head Pushbutton**

**Pushbutton with  
Cylinder Lock**

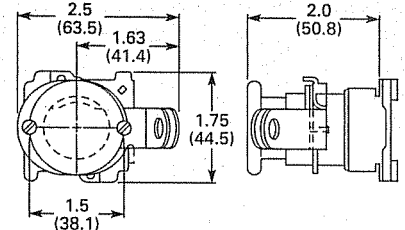
**Illuminated Pushbutton**



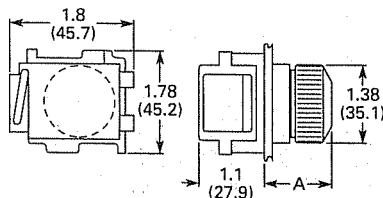
**Push-Pull Switch**



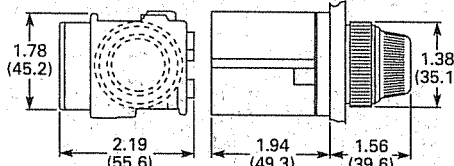
**Flush Pushbutton Operator  
with Padlock Attachment**



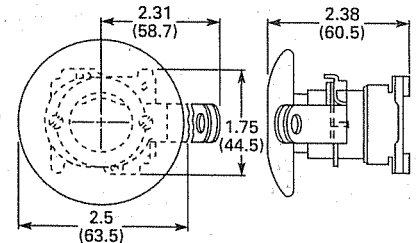
**Mushroom Head Pushbutton Operator  
with Padlock Attachment**



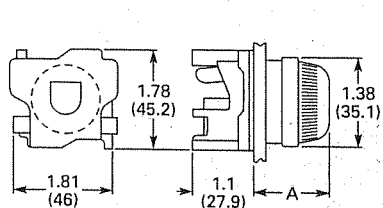
**Indicating Light - Transformer Type**



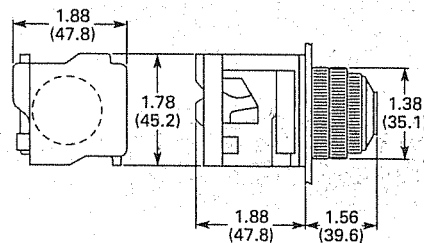
**PresTest Indicating Light - Transformer Type**



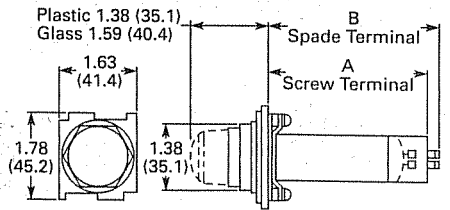
**Jumbo Mushroom Head Pushbutton Operator  
with Padlock Attachment**



**Indicating Light - Resistor and Neon Type**



**PresTest Indicating Light - Resistor Type**



**Master Test Indicating Light**

Lens	Dimension A
Plastic	1.38 (35.1)
Glass	1.56 (39.6)

Description	Dim. in Inches (mm)	
	B	C
Relay Type	4.38 (111.2)	4.28 (108.7)
Solid-State Type	2.94 (74.7)	2.88 (73.2)

Figure 47-119. Approximate Dimensions in Inches (mm)

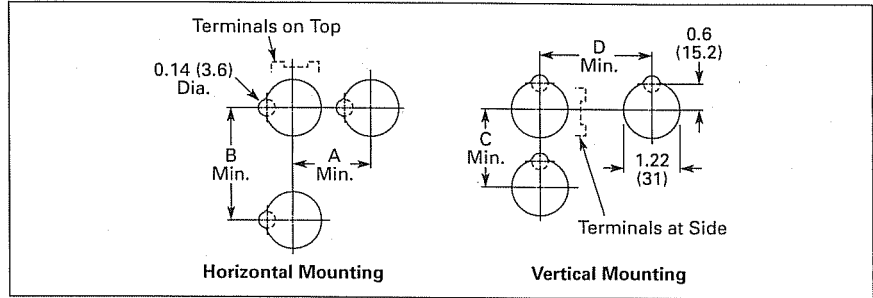
### Mounting

#### Panel Thickness

- Minimum: 0.06 inch (1.6 mm)
- Maximum: 0.25 inch (8 mm) including legend plate
- Maximum can be increased to 0.375 inch (15.9 mm) using optional retaining nut
  - Indicating light: 10250TA30
  - Pushbutton/selector switch: 10250TA31

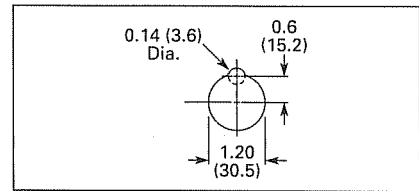
**Table 47-254. Mounting Matrix**

Legend Plate	Dimensions in Inches (mm)			
	A	B	C	D
Small	1.63 (41.3)	2.25 (57.2)	2.25 (57.2)	1.63 (41.3)
Medium	1.75 (44.5)	2.25 (57.2)	2.25 (57.2)	1.75 (44.5)
Large	2.25 (57.2)	2.25 (57.2)	2.25 (57.2)	2.25 (57.2)


**Figure 47-117. Mounting Options in Inches (mm)**

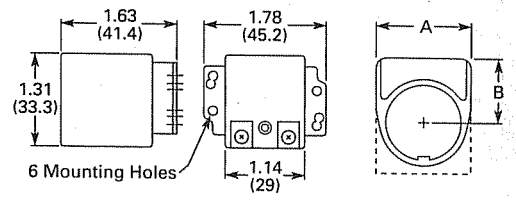
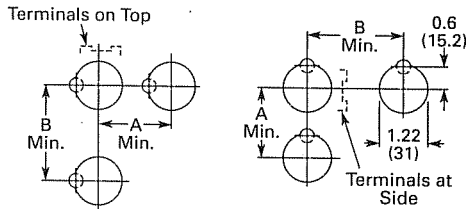
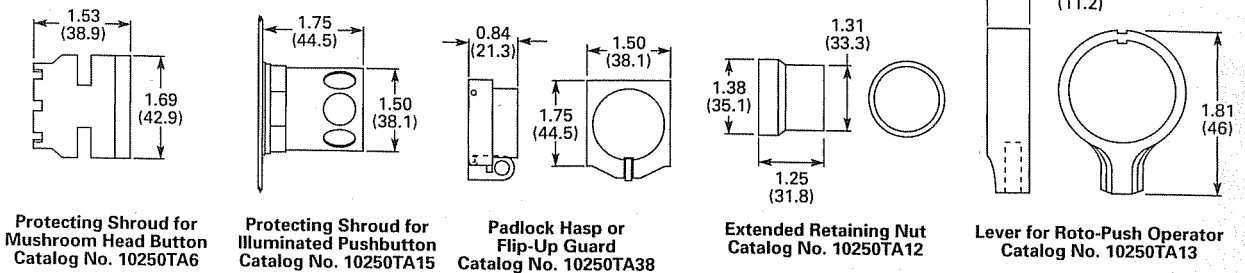
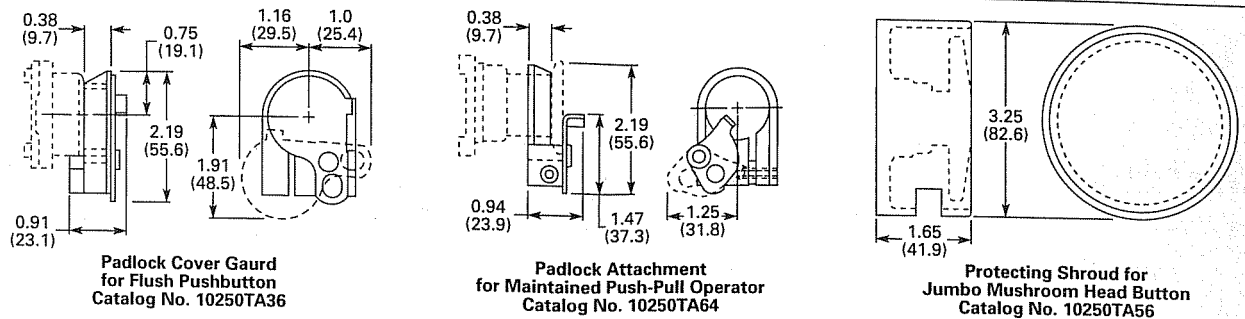
Horizontal mounting means terminals are located top and bottom of contact block. Vertical mounting means terminals are left and right of contact block. This allows close spacing of adjacent operators with easy access to terminals.

**Note:** Locating nib hole or notch is 0.14 inch (3.6 mm) #29 drill.


**Figure 47-118. Drilling Dimensions in Inches (mm)**



### 10250T Series, Dimensions



#### Panel Drilling and Minimum Spacing

Legend Plate	Dim. in Inches (mm)	
	A Min.	B Min.

#### 1 or 2 Circuit Contact Blocks

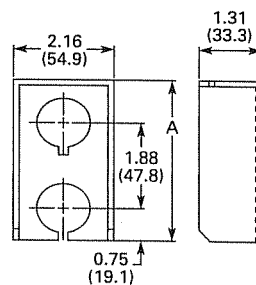
Small or None	1.63 (41.4)	2.25 (57.2)
Standard	1.75 (44.5)	2.25 (57.2)
Jumbo ①	2.25 (57.2)	2.25 (57.2)
Extra Large	2.50 (63.5)	2.60 (66)

#### 4 Circuit Contact Block 10250T44

Small or None	1.88 (47.8)	2.25 (57.2)
Standard	1.88 (47.8)	2.25 (57.2)
Jumbo ①	2.25 (57.2)	2.25 (57.2)
Extra Large	2.50 (63.5)	2.60 (66)

① If Jumbo plates are to be placed one above the other vertically, add 0.13 (3.3) to minimum dimensions listed.

**Note:** Locating nib hole or notch is 1.36" - 1.4" (34.5 - 35.6 mm) #29 drill.



Number of Elements	Dimension A
2	4.0 (101.6)
3	5.88 (149.4)
4	7.88 (200.2)
7	13.38 (339.9)

Legend Plate	Dim. in Inches (mm)	
	A	B

#### 1/2 Round Legend Plates

Small	1.56 (39.6)	0.91 (23.1)
Standard	1.59 (40.4)	1.07 (27.2)
Jumbo	2.06 (52.3)	1.53 (38.9)

#### Square Legend Plates

Small	1.59 (40.4) Sq.	0.90 (22.9)
Standard	1.75 (44.5) Sq.	1.06 (26.9) ②
Jumbo	2.19 (55.6) Sq.	1.50 (38.1)
Extra Large	2.44 (62.0) Sq.	1.63 (41.4)

② For plastic legend plate, Dimension B is 1.12 (28.4).

Enclosure Size (No. of Elements)	Dimensions in Inches (mm)				
	Wide A	High B	Deep C	Mounting	
				D	E
2, 3, & 4	3.75 (95.3)	1.94 (49.3)	0.13 (3.3)	2.69 (68.3)	1.38 (35.1)
6 & 7	4.0 (101.6)	2.19 (55.6)	0.13 (3.3)	2.88 (73.2)	1.63 (41.4)

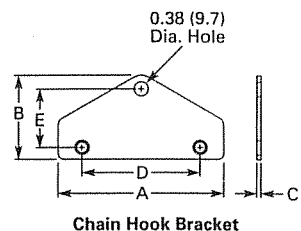
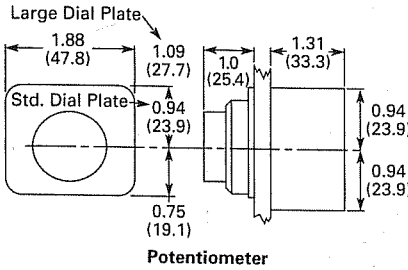
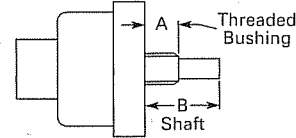


Figure 47-121. Approximate Dimensions in Inches (mm)

**10250T Series, Dimensions**



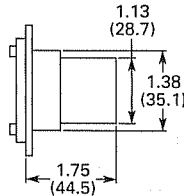
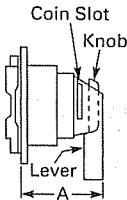
Potentiometer	Dimensions in Inches (mm)		
	A	B	C
2 Watt Single	1.31 (33.3)	0.94 (23.9)	0.94 (23.9)
25 Watt — Up to 25M Ohms	2.38 (60.5)	1.19 (30.2)	0.81 (20.6)
50M Ohms	2.56 (65)	1.69 (42.9)	1.25 (31.8)



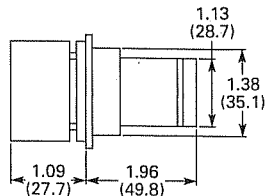
Shaft Dimensions of Potentiometer That C-H Operator Will Accept

Cat. No. Operator	Dimensions in Inches (mm)	
	A	B
10250T330	0.38 (9.7) Dia. x 0.38 (9.7) Long	0.25 (6.4) Dia. x 0.63 (16) Long
10250TH3872	0.38 (9.7) Dia. x 0.38 (9.7) Long	0.25 (6.4) Dia. x 0.88 (22.4) Long

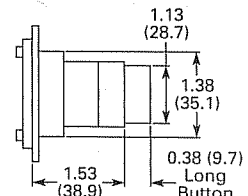
Operator	Dim. A
Knob	1.38 (35.1)
Lever	1.50 (38.1)
Coin Slot	1.38 (35.1)



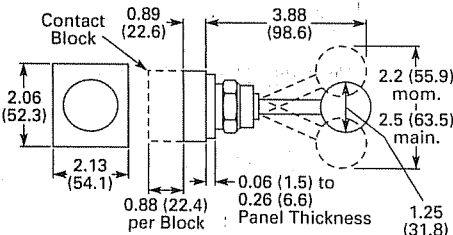
Key Operated Selector Switch



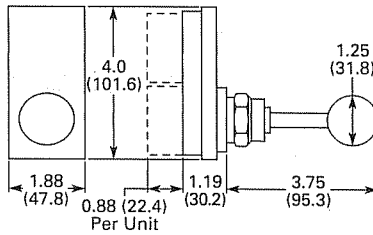
Illuminated Selector Switch



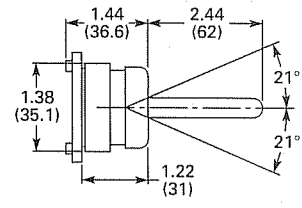
Roto-Push



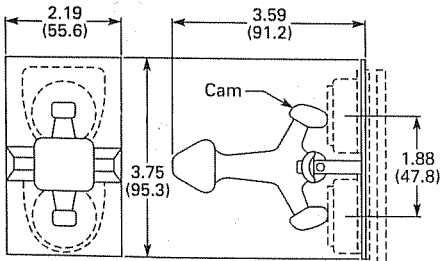
2-Position Joystick Operator



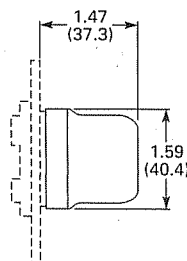
4-Position Joystick Operator



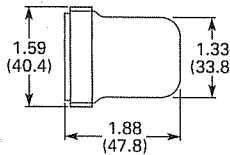
Wobble Stick  
 Catalog No. 10250TA5



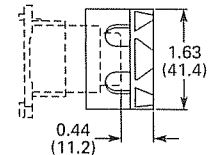
Lever Operator  
 (For Use with Two Vertically Mounted Flush Pushbuttons)  
 Catalog No. 10250TA14



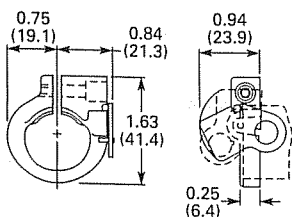
Flexible Boot for Protecting Flush or Long Pushbutton  
 Catalog No. 10250TA3  
 Typical



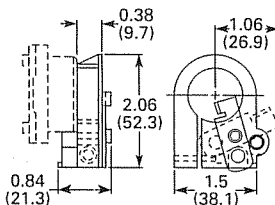
Transparent Flexible Boot for Illuminated Pushbutton  
 Catalog No. 10250TA25



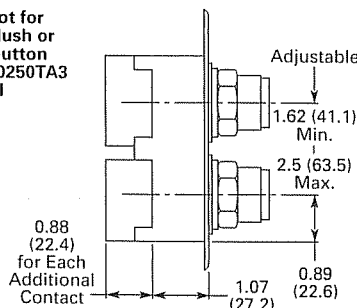
Padlock Attachment for Knob Selector Switch  
 Catalog No. 10250TA11



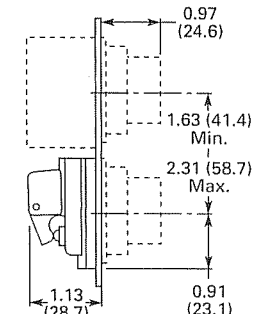
Padlock Attachment for Flush Pushbutton  
 Catalog No. 10250TA2



Padlock Attachment for Extended Pushbutton  
 Catalog No. 10250TA26



Maintained Pushbutton  
 Catalog No. 10250TA66 Typical



Maintained Contact Attachment  
 Catalog No. 10250TA17 Typical

Figure 47-120. Approximate Dimensions in Inches (mm)