## Selector Switch Units

■ Two-, Three- and Four-Position Maintained


3-Position Maintained Switch Catalog Number 10250T21KB

3-Position Maintained Switch Catalog Number 10250T22КB

Table 47-200. 2-Position Selector Switch — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

| Operator Position ${ }^{1}$ |  | Operator Action | Non-illuminated |  |  | Illuminated - 120V Transformer |  |  | Contact Type | Mounting Location |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $8$ |  | Black Knob (3) | Black Lever ${ }^{(3)}$ | Price U.S. \$ | Red Knob (3) | Red Lever (3) | Price U.S. \$ |  |  |  |
| 0 |  |  | Catalog Number | Catalog Number |  | Catalog Number | Catalog Number |  |  | A | B |
| $\begin{aligned} & X \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & \mathrm{X} \end{aligned}$ | $m \bigvee / m$ | 10250T20KB | 10250T20LB |  | 10250ED1117-KR | 10250ED1117-LR |  | $\begin{aligned} & \text { 1NC } \\ & \text { 1NO } \end{aligned}$ | $\bigcirc$ | $\frac{1}{0-0}$ |

(1) $\mathrm{X}=$ closed circuit, $\mathrm{O}=$ open circuit.
(2) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(3) To order different type or color selector switch, substitute the underlined character with appropriate Suffix Code from the Color Selection table. Example: 10250T20KG.
Table 47-201. 3-Position Selector Switch — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

| Operator Position ${ }^{4}$ |  |  | Operator Action | Non-illuminated |  |  | Illuminated - 120V Transformer |  |  | Contact Type | Mounting <br> Location |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $0$ | $4$ | $8$ |  | Black Knob [6 | Black Lever ${ }^{(6)}$ | Price U.S. \$ | Red Knob ${ }^{\text {© }}$ | Red Lever ${ }^{\text {(6) }}$ | Price U.S. \$ |  |  |  |
|  |  |  |  | Catalog Number | Catalog Number |  | Catalog Number | Catalog Number |  |  | A | B |
| $\begin{aligned} & X \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{x} \end{aligned}$ |  | 10250T21KB | 10250T21LB |  | 10250ED1117-2KR | 10250ED1117-2LR |  | $\begin{aligned} & \text { 1NO } \\ & \text { 1NO } \end{aligned}$ | $\frac{1}{0} 0$ | $\frac{1}{0-0}$ |
| $\begin{aligned} & \mathrm{X} \\ & 0 \\ & 0 \end{aligned}$ | 0 $\times$ 0 | 0 0 $\times$ |  | 10250T22KB | 10250T22LB |  | 10250ED1117-3KR | 10250ED1117-3LR |  | $\begin{gathered} \hline \text { 1NO } \\ \text { 2NC } \\ \text { (Series) } \\ \text { 1NO } \end{gathered}$ | $\frac{1}{0}$ |  |

(4) $\mathrm{X}=$ closed circuit, $\mathrm{O}=$ open circuit.
(5) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(6) To order different type or color selector switch, substitute the underlined character with appropriate Suffix Code from the Color Selection table. Example: 10250T20KG.
Table 47-202. 4-Position Selector Switch — UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

| Operator Position (7) |  |  |  | Operator Action ${ }^{8}$ | Non-illuminated |  |  | Illuminated - 120V Transformer |  |  | Contact Type | Mounting Location |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $0$ | $0$ | $8$ | $0$ |  | Black Knob ( ${ }^{\text {( }}$ | Black Lever © | PriceU.S. S | Red Knob (9) | Red Lever ${ }^{(9)}$ | Price U.S. \$ |  |  |  |
|  |  |  |  |  | Catalog Number | Catalog Number |  | Catalog Number | Catalog Number |  |  | A | B |
| X 0 0 0 0 | O X O O | 0 0 X O | $\begin{aligned} & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{O} \\ & \mathrm{X} \end{aligned}$ |  | 10250T46KB | 10250T46LB |  | 10250ED1117-4KR | 10250ED1117-4LR |  | 1NC 1NO 1NO 1NC | $\frac{0-0}{0-1}$ |  |

(7) $\mathrm{X}=$ closed circuit, $\mathrm{O}=$ open circuit.
(8) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(9) To order different type or color selector switch, substitute the underlined character with appropriate Suffix Code from the Color Selection table. Example: 10250T20KG.
Table 47-203. Color Selection

| Illuminated |  |  |  |  |  | Non-illuminated |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Color | Code Letter | Color | Code Letter | Color | Code Letter | Color | Code Letter | Color | Code Letter | Color | Code Letter |
| Red Green | $\begin{aligned} & \mathbf{R} \\ & \mathbf{G} \end{aligned}$ | White Blue | $\begin{array}{\|l\|} \hline \text { W } \\ \text { B } \end{array}$ | Amber Clear | $\begin{array}{\|l\|} \hline \mathbf{A} \\ \mathbf{C} \end{array}$ | Black Red | $\begin{aligned} & \hline \mathbf{B} \\ & \mathbf{R} \end{aligned}$ | Green White | $\begin{aligned} & \mathbf{G} \\ & \mathbf{W} \end{aligned}$ | Blue Orange | $\begin{array}{\|l\|} \hline \mathrm{L} \\ \mathbf{0} \end{array}$ |


| A | Pages 47-155-47-156 |
| :---: | :---: |
| Additional Circuit |  |
| Arrangements . | Pages 47-133-47-134 |
| Dimensions | Pages 47-160-47-162 |
| Enclosures | Pages 47-153-47-154 |
| Legend Plates. | Pages 47-151 - 47-152 |
| Discount Symbol | 1CD1C |



10250T Series

## Selector Switch Selection

## Cam and Contact Block Selection

Selector switches in their varied forms (2-position, 3 -position and 4-position) are a big factor contributing to the great flexibility of control that a well rounded line of "pushbuttons" can achieve. Because of their flexibility, they tend to cause difficulty with product selection and application. The following systematic approach should simplify that task.

Cam and contact block selection is better understood if you:

■ Work with each incoming and outgoing wire/circuit separately.

- Recognize the terms NO and NC only identify the type of contact by its mode before mounting to the operator. The " $\mathrm{X}-\mathrm{O}$ " table (Page 47134) shows how that contact will act after assembly to the operator with the selected cam shape. $\mathrm{X}=$ closed circuit, $\mathrm{O}=$ open circuit.
■ Up to six NO or NC contacts may be mounted behind each plunger location for a total of twelve contacts. Single circuit contact blocks have only one plunger with the other side of the block "open." Therefore, single circuit contact blocks transmit motion to blocks behind them only for the position containing the circuit.
- Each cam has two separate lobes, each of which operates one of the two contact block plungers independently of each other. Those are identified as position A (locating nib side) and position B (opposite of locating nib). The position designations give direction in selecting and mounting of the contact blocks (see Figure 47-94).


Figure 47-94. Contact Circuit Locations

## Systematic Approach

Application: HAND-OFF-AUTO Selector Switch. In this circuit, one incoming line is distributed to two other outgoing circuits by the switch. The two circuits can be looked at individually.
Step 1: Elementary Diagram.
Construct on paper, or in your mind, a simple elementary diagram of the switching scheme as follows:


Step 2: "X-O" Pattern.
From the elementary diagram, you can construct an " X - O " diagram which describes when the contacts are to be closed (X) or open (O) in the various positions of the switch. The "X-O" for the HAND circuit looks like this:

```
HAND OFF AUTO
    * 个 A
        XOO
```

In this circuit, you want a contact closed on the left (HAND) but open in the center and right.

For the AUTO circuit, the "X-O" diagram would look like this:

$$
\begin{gathered}
\text { HAND OFF AUTO } \\
\uparrow \neq \uparrow \\
00 x
\end{gathered}
$$

Putting them together, the complete " X -O" diagram is:

$$
\begin{array}{lll}
\text { xol } \\
\text { orox }
\end{array}
$$

Once the "X-O" diagram has been generated, the next step is to select the cam and contact block, or blocks, needed to perform the desired "X-O" functions. The selection table on the following page lists the various types (shapes) of cams by number to choose from and the type of contact and position to achieve the function outlined in your "X-O" diagram.

Step 3: Cam Selection.
The cam you select determines the operation of all contact blocks mounted to the operator. It is selected on the basis that it provides the simplest circuitry for the desired "X-O" diagram. The selection tables of the following page show all the "X-O" combinations. For the purpose of this example, the applicable portion of those tables is shown in Table 47-204.

Table 47-204. Example Selection Table

| No. | "X-O" <br> Pattern | Cam Code \#2 |  | Cam Code \#3 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Top <br> A | Bottom <br> B | Top <br> A | Bottom <br> B |  |
|  |  |  |  |  |  |


| 1 | X 00 | $\begin{array}{ll} \text { _1 }^{(1)} \\ \text { NO NC } & \text { NO } \end{array}$ |  |
| :---: | :---: | :---: | :---: |
| 4 | 0 OX | $\frac{1}{\mathrm{NO}}{ }^{\mathrm{O}}$ | $\begin{aligned} & -\frac{1}{\mathrm{NO}}{ }^{\mathrm{O}} \end{aligned}$ |

(1) Wired in series.

Now to make the cam selection, make a simple worksheet such as:

|  | Cam 2 | Cam 3 |
| :--- | :---: | :--- |
| X OO | (A)NO-(B)NC | (A)NO <br> OOX |
| (B)NO |  |  |

It becomes immediately obvious that cam 3 is the better choice for two reasons, (1) the series combination can be avoided making it simpler to wire, (2) only two contacts are required, which is less expensive than the three contacts required by cam 2 .

Step 4: Contact Block Selection. Having selected the cam, contact block selection is simply a matter of gathering the A position and B position circuits into pairs which make up the most convenient contact block arrangement. If there is an imbalance in the number of circuits under $A$ or $B$, then single circuit blocks must be selected for these leftover circuits.

Back to the worksheet, having selected cam 3 do this:


Step 5: Selector Switch Operator. Lastly, you have to choose from the many types of operators - knob and lever in various colors or keyed. Also what combinations of maintained and spring return functions are required. Selection of these operators can be found on Page 47-135. For the above example you may want a 3-position maintained black knob, cam 3 Catalog Number 10250T1323.

The Complete Switch: 10250T1323 with one 10250T2 or, for one composite catalog number, 10250T21KB found on Page 47-132.

## Selector Switch Selection

(Continued)
Table 47-205. 2-Position Selector Switch Contact Block Selection

| No. | Desired Circuit and Operator Position | Contact Blocks Required to Accomplish Circuit Function |  |
| :---: | :---: | :---: | :---: |
|  |  | Top Plunger A | Bottom Plunger B |
| 1 | X 0 | $\begin{aligned} & -\mathrm{O}-\mathrm{O}-\mathrm{O} \\ & \mathrm{NC} \end{aligned}$ | $\begin{aligned} & -\mathrm{O}-\mathrm{O} \\ & \mathrm{NC} \end{aligned}$ |
| 2 | 0 X | $\begin{array}{ll} -\bar{O} & 0 \\ \text { No } \end{array}$ | $\begin{aligned} & -\overline{\mathrm{O}} \mathrm{O} \\ & \text { No } \end{aligned}$ |

## Diagrams

Circuits shown illustrate connections to obtain a selector switch circuit combination and are shown with their appropriate line diagrams. Field wiring of jumper connections required as shown.

X = Closed Circuit
O = Open Circuit


Figure 47-95. Wiring of Jumper Connections
Note: 4-Position Selector Switches limited to 4 contact blocks.

## Contact Blocks

For selection and number of available contact blocks per operator, see Page 47-148.

Table 47-206. 3-Position Switch — Cam and Contact Block Selection


Table 47-207. 4-Position Switch — Contact Block Selection

| No. | Desired Circuit and Operator Position | Contact Blocks <br> Required to Accomplish Circuit Function |  | Com-bination No. | Desired Circuit and Operator Position |  |  | Contact Blocks Required to Accomplish Circuit Function |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mounting Location |  |  |  |  |  | Mounting <br> Location |  |
|  |  | Top <br> Plunger <br> A | Bottom <br> Plunger <br> B |  |  |  |  | Top Plunger A | Bottom Plunger B |
| 1 | $\times \quad 0 \quad 0 \quad 0$ | $\begin{aligned} & -\mathrm{O}-\mathrm{O}- \\ & \mathrm{NC} \end{aligned}$ |  | 10 | X 0 | X | 0 |  |  |
| 2 | $0 \times 0$ |  | $\frac{1}{\text { NO }}$ |  |  |  |  |  |  |
| 3 | $0 \mathrm{O} \times \mathrm{O}$ | $\frac{1}{-\mathrm{NO}^{\circ}}$ |  | 11 | X X | X | 0 |  |  |
| 4 | 0 O O X |  | $-$ |  |  |  |  |  |  |  |
| 5 | X O O X | NC | $\xrightarrow[\mathrm{NC}]{\mathrm{NC}}$ | 12 | 0 | X | X |  |  |
| 6 | $0 \times 10$ |  | $\begin{aligned} & \frac{1}{-0} \\ & \mathrm{NO} \end{aligned}$ |  |  |  |  |  |  |  |
| 7 | 0 O X X | NO | $\begin{aligned} & \hline \stackrel{-1-1}{\mathrm{NC}} \\ & \hline \end{aligned}$ | 13 | $\times \quad 0$ | X | X |  |  |
| 8 | $\times \quad \times \quad 00$ | NC | $\frac{1}{\mathrm{NO}^{\circ}}$ |  |  |  |  |  |  |  |
| 9 | $0 \times 0 \times$ |  | $\frac{1}{0} 1$ $\mathrm{CO}_{0}^{0}$ NO NC | 14 | X X | 0 | X | $\begin{aligned} & T^{0+1} 0 \\ & + \\ & N C \end{aligned}$ | $\begin{aligned} & \frac{1}{-1} \\ & -\mathrm{O} \\ & \hline \mathrm{O} \quad \mathrm{O} \\ & \mathrm{NO} \\ & \mathrm{NC} \end{aligned}$ |

## Selector Switch Operators



2-Position Maintained Black Knob Selector Switch - Cam 1 Cat. No. 10250 T1311


3-Position Maintained Black
Lever Selector Switch Cam 3 Cat. No. 10250 T3023


2-Position Maintained Horizontal Mount, Key Removal \#1 Keyed
Selector Switch - Cam 1
Cat. No. 10250T16111

Selector Switch Operators with Caps
Table 47-208. Selector Switch Operators with Caps - UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

| Positions | Operator Action ${ }^{(1)}$ | Black Knob Selector Switch - Vertical Mounting (3) |  |  | Black Lever Selector Switch - Vertical Mounting ${ }^{(3)}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cam Code ${ }^{2}$ | Catalog Number | $\begin{aligned} & \hline \text { Price } \\ & \text { U.S. } \$ \end{aligned}$ | Cam Code ${ }^{2}$ | Catalog Number | $\begin{aligned} & \hline \text { Price } \\ & \text { U.S. \$ } \end{aligned}$ |
| 2-Position - $60^{\circ}$ Throw | $m \bigvee / m$ | 1 | 10250 T1311 |  | 1 | 10250 T3011 |  |
|  | $m \forall s$ | 1 | 10250T1371 |  | 1 | 10250 T3071 |  |
| 3-Position - $60^{\circ}$ Throw |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T1322 } \\ & \text { 10250T1323 } \end{aligned}$ |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T3022 } \\ & \text { 10250T3023 } \end{aligned}$ |  |
|  | $\langle\underbrace{M}_{M}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | 10250T1332 10250T1333 |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T3032 } \\ & \text { 10250T3033 } \end{aligned}$ |  |
|  |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \hline \text { 10250T1342 } \\ & \text { 10250T1343 } \end{aligned}$ |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \\ \hline \end{array}$ | $\begin{aligned} & \text { 10250T3042 } \\ & \text { 10250T3043 } \end{aligned}$ |  |
|  |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | 10250T1352 10250T1353 |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \\ \hline \end{array}$ | $\begin{aligned} & \text { 10250T3052 } \\ & \text { 10250T3053 } \end{aligned}$ |  |
| 4-Position - $40^{\circ}$ Throw |  | 7 | 10250 T1367 |  | 7 | 10250 T3067 |  |

(1) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(2) For selection of the proper cam and contact block to obtain the proper circuit sequence, see selection instructions and table on Pages 47-133-47-134.
${ }^{3}$ Field convertible to Horizontal Mounting or order operator only and separate operator cap.
Table 47-209. Key Operators with Cam - UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

| Positions | Operator Action ${ }^{4}$ | Cam Code ${ }^{\text {(5) }}$ | Optional Key Removal Positions © ${ }^{6}$ | Vertical Mounting | Horizontal Mounting | Price U.S. \$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Catalog Number | Catalog Number |  |
| 2-Position - $60^{\circ}$ Throw | $m \bigvee / m$ | 1 | 1,2,3 | 10250T1511_ | 10250T1611_ |  |
|  | $m \bigvee s$ | 1 | 2 | 10250T1571_ | 10250T1581_ |  |
| 3-Position - $60^{\circ}$ Throw |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \\ \hline \end{array}$ | 1-7 | 10250T1522_ 10250T1523_ | 10250T1622 10250T1623 |  |
|  |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | 1,4,5 | $\begin{aligned} & \text { 10250T1532_ } \\ & \text { 10250T1533_ } \end{aligned}$ | $\begin{aligned} & \text { 10250T1632_ } \\ & \text { 10250T1633_ } \end{aligned}$ |  |
|  | $\underset{S}{M} \underbrace{M}_{S}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | 4 | $\begin{aligned} & \text { 10250T1542_ } \\ & \text { 10250T1543_ } \end{aligned}$ | $\begin{aligned} & \text { 10250T1642_ } \\ & \text { 10250T1643_ } \end{aligned}$ |  |
|  |  | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | 2, 4, 6 | $\begin{aligned} & \text { 10250T1652_ } \\ & \text { 10250T1653_ } \end{aligned}$ | $\begin{aligned} & \hline \text { 10250T1662 } \\ & \text { 10250T1663_ } \end{aligned}$ |  |
| 4-Position - 40 ${ }^{\circ}$ Throw |  | 7 | 7 | 10250T1677_ | 10250T1687_ |  |

(4) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(5) For selection of the proper cam and contact block to obtain the proper circuit sequence, see selection instructions and table on Pages 47-133-47-134.
(6) Choose key removal position required for application from Table 47-210 on Page 47-136. Add key removal Code No. to listed Catalog Number. Example: 10250T15112.

| Accessories | Pages 47-155-47-156 |
| :---: | :---: |
| Contact Blocks | Page 47-148 |
| Dimension | Pages 47-160-47-162 |
| Enclosures | Pages 47-153-47-154 |
| Legend Plates | Pages 47-151 - 47-152 |
| Discount Symb | 1CD1C |

## Selector Switch Operators (Continued)

Table 47-210. Key Removal Positions

| Code Suffix | Key Removal Positions | Code Suffix | Key Removal Positions |
| :---: | :---: | :---: | :---: |
| 1 | Right Only | 5 | Right \& Center |
| 2 | Left Only | 6 | Left \& Center |
| 3 | Right \& Left | 7 | All Positions |
| 4 | Center Only |  |  |

Note: Key removal in "spring return from" positions not recommended.


Figure 47-96. Key Removal Positions
Replacement Keys or Dissimilar Locks for Key Operators
Operators listed on Page 47-135 have identical locks and keys (Key Code H661) Catalog Number 10250ED824. For dissimilar lock and key combinations, see listing at right.
Table 47-211. Replacement Key

| Description | Catalog <br> Number | Price <br> U.S. \$ |
| :--- | :--- | :--- |
| Replacement Keys <br> (Code H661) | 10250ED824 |  |

Selector Switch Operators with Dissimilar Locks and Keys - UL (NEMA) 4, 4X and 13 The locks in all key operators listed on Pages 47-121, 47-135 and 47-180) are identical and use key code number H661. Two keys are supplied with every lock. For additional code number H661 keys, order Catalog Number 10250ED824. For others, order 10250ED1130 and designate lock number. When dissimilar locks for each operator or each group of operators are required, select from the lock and key combination listed below. When Ordering Operator Only or a Complete Control Unit with a substitute lock, order from table below and add "except Lock and Key Code No. ..."

Table 47-212. "H" Series Locks without Master Key - with Key Slot Cover

| Lock and Key Code Numbers |  |  |  |
| :--- | :--- | :--- | :--- | | Adder |
| :--- |
| U.S. \$ |


| H501 | H635 | H663 |  |
| :--- | :--- | :--- | :--- |
| H620 | H639 | H675 |  |
| H621 | H643 | H683 |  |
| H634 | H654 | H688 |  |

Table 47-213. "M" Series Locks with Master Key - with Key Slot Cover

| Lock and Key Code Numbers |  |  |  | Adder <br> U.S. \$ |
| :--- | :--- | :--- | :--- | :--- |
| MD1 MD14 ME8 MJ6 <br>     <br> MD2 MD15 ME11 MJ10 |  |  |  |  |
| MD3 | MD16 | ME16 | MJ11 |  |
| MD4 | MD19 | ME17 | MJ13 |  |
| MD5 | MD20 | ME18 | MJ15 |  |
| MD7 | ME2 | ME19 | MJ16 |  |
| MD9 | ME3 | MJ1 | MD17 |  |
| MD10 | ME5 | MJ3 |  |  |
| MD11 | ME6 | MJ4 |  |  |
| MD13 | ME7 | MJ5 |  |  |

Table 47-214. Master Keys for Above Locks

| Application | Catalog <br> Number | Price <br> U.S. \$ |
| :--- | :--- | :--- |
| For Code: |  |  |
| MD1 - MD20 | 10250ED825-3 |  |
| ME2 - ME18 | 10250ED825-4 |  |
| MJ1 - MJ16 | 10250ED825-5 |  |

## Selector Switch Operators (Continued)

## Selector Switch Operators without Caps

Note: Operators below can be ordered with caps assembled to them by adding the Code Number from Table 47-216 to the end of Catalog Number below.
Example: 10250T4011KB


2-Position
Selector Switch Maintained, Cam Code 1
Catalog Number
10250T4011

Table 47-215. Selector Switch Operators without Caps

| Positions | Operator Action ${ }^{1}$ | Cam Code ${ }^{2}$ | Catalog Number | Price U.S. \$ |
| :---: | :---: | :---: | :---: | :---: |
| 2-Position - $60^{\circ}$ Throw | $m \bigvee / m$ | 1 | 10250T4011 |  |
|  | $m \geqslant s$ | 1 | 10250 T4081 |  |
| 3-Position - $60^{\circ}$ Throw | $\mathrm{M}_{\mathrm{M}}^{\mathrm{M}}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T4022 } \\ & \text { 10250T4023 } \end{aligned}$ |  |
|  | $\mathrm{S}_{\mathrm{M}}^{\mathrm{M}}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T4032 } \\ & \text { 10250T4033 } \end{aligned}$ |  |
|  | $\underset{S}{M}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \end{array}$ | $\begin{aligned} & \text { 10250T4042 } \\ & \text { 10250T4043 } \end{aligned}$ |  |
|  | $\stackrel{M}{\mathrm{M}}$ | $\begin{array}{\|l\|} \hline 2 \\ 3 \\ \hline \end{array}$ | $\begin{aligned} & \text { 10250T4052 } \\ & \text { 10250T4053 } \end{aligned}$ |  |
| 4-Position - $40^{\circ}$ Throw |  | 7 | 10250T4067 |  |

(1) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(2) For selection of the proper cam and contact block to obtain the proper circuit sequence, see selection instructions and table on Pages 47-133-47-134.

Table 47-216. Operating Caps

| Color | Knob |  | Lever |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Catalog and Code Number | Price U.S. S | Catalog and Code Number | Price U.S. $\$$ |
| Black | 10250TKB |  | 10250TLB |  |
| Red | 10250TKR |  | 10250TLR |  |
| Green | 10250TKG |  | 10250TLG |  |
| Yellow | 10250TKY |  | 10250TLY |  |
| White | 10250TKW |  | 10250TLW |  |
| Gray | 10250TKA |  | 10250TLA |  |
| Blue | 10250TKL |  | 10250TLL |  |
| Orange | 10250TKO |  | 10250TLO |  |
| Color | Lever (3) |  | Coin Slot |  |
|  | Catalog and Code Number | $\begin{array}{r} \text { Price } \\ \text { U.S. } \$ 4 \end{array}$ | Catalog and Code Number | $\begin{array}{r} \text { Price } \\ \text { U.S. } \$ 4 \end{array}$ |
| Black | 10250TSB |  | 10250TCB |  |
| Red | 10250TSR |  | 10250TCR |  |
| Green | 10250TSG |  | 10250TCG |  |
| Yellow | 10250TSY |  | 10250TCY |  |
| White | 10250TSW |  | 10250TCW |  |
| Gray | 10250TSA |  | 10250TCA |  |
| Blue | 10250TSL |  | 10250TCL |  |
| Orange | 10250TSO |  | 10250TCO |  |

${ }^{3}$ Designed for added ingress protection. For use in maintained operators only.

| 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 Symb | 1CD1C |

Illuminated Selector Switch Operators
Illuminated Selector Switches without Caps


Table 47-217. Operator without Knob or Lever

| Positions | Operator Action ${ }^{(1)}$ | Transformer Type - 50/60 Hz |  |  |  | Full Voltage Type - AC or DC ${ }^{4}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 6 Volt \#755 Lamp |  |  |  | $\begin{aligned} & \text { Lamps: 6V — \#755, 12V — \#756, 24V — \#757, } \\ & 48 \mathrm{~V}-\# 1835,120 / 240 \mathrm{~V}-120 \mathrm{MB} \end{aligned}$ |  |  |  |
|  |  | Voltage | Catalog and Code Number ${ }^{(2)}$ | Cam Code (3) | $\begin{array}{\|l\|} \hline \text { Price } \\ \text { U.S. \$ } \end{array}$ | Voltage | Catalog and Code Number ${ }^{(2)}$ | Cam Code ${ }^{3}$ | $\begin{array}{\|l\|} \hline \text { Price } \\ \text { U.S. \$ } \end{array}$ |
| 2-Position -60 ${ }^{\circ}$ Throw |  | 24 120 208 240 380 480 600 | $\begin{aligned} & \hline \text { 10250T5961 } \\ & \text { 10250T5971 } \\ & \text { 10250T6511 } \\ & \text { 10250T5981 } \\ & \text { 10250T5991 } \\ & \text { 10250T6001 } \\ & \text { 10250T6011 } \end{aligned}$ | 1 |  | $\begin{array}{\|c\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \text { (5) } \end{array}$ | 10250 T 6201 <br> 10250T6211 <br> 10250T6221 <br> 10250T6231 <br> 10250T6361 <br> 10250T6371 | 1 |  |
| 3-Position -60 ${ }^{\circ}$ Throw |  | 24 120 208 240 380 480 600 | 10250T602_- 10250T603_ 10250T652_ 10250T604_ 10250T605_ 10250T606_ 10250T607_ | + 2 or 3 |  | $\begin{array}{\|c\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \text { ⑤ } \end{array}$ | 10250T624_- 10250T625_ $10250 \mathrm{~T} 626_{-}$ $10250 \mathrm{~T} 627_{-}$ $10250 \mathrm{~T} 638_{-}$ $10250 \mathrm{~T} 639_{-}$ | + 2 or 3 |  |
|  |  | 24 120 208 240 380 480 600 |  | + 2 or 3 |  | $\begin{array}{\|r\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \end{array}$ | 10250 T 612 <br> 10250 T 632 <br> 10250 T 42 <br> 10250 T 672 <br> 10250 T 622 <br> 10250 T 682 | + 2 or 3 |  |
|  |  | 24 120 208 240 380 480 600 | $\begin{array}{\|l} \hline 10250 \mathrm{~T} 660 \\ 10250 \mathrm{~T} 621 \\ 10250 \mathrm{~T} 661 \\ 10250 \mathrm{~T} 662_{-} \\ 10250 \mathrm{~T} 663_{-} \\ 10250 \mathrm{~T} 664 \\ 10250 \mathrm{~T} 665 \end{array}$ | + 2 or 3 |  | $\begin{array}{\|r\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \end{array}$ | 10250T613_ 10250T633_ $10250 \mathrm{~T} 643_{-}$ $10250 \mathrm{~T} 673_{-}$ $10250 \mathrm{~T} 623_{-}$ $10250 \mathrm{~T} 683_{-}$ | + 2 or 3 |  |
|  |  | 24 120 208 240 380 480 600 | $\begin{array}{\|l} \hline 10250 \mathrm{~T} 614- \\ 10250 \mathrm{~T} 615- \\ 10250 \mathrm{~T} 653 \\ 10250 \mathrm{~T} 616 \\ 10250 \mathrm{~T} 617 \\ 10250 \mathrm{~T} 618 \\ 10250 \mathrm{~T} 619 \\ \hline \end{array}$ | + 2 or 3 |  | $\begin{array}{\|c\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \text { ⑤ } \end{array}$ | $10250 \mathrm{~T} 628-$ $10250 \mathrm{~T} 629_{-}$ $10250 \mathrm{~T} 630_{-}$ $10250 \mathrm{~T} 631_{-}$ $10250 \mathrm{~T} 640_{-}$ $10250 \mathrm{~T} 641_{-}$ | + 2 or 3 |  |
| 4-Position - $40^{\circ}$ Throw |  | 24 120 208 240 380 480 600 | $\begin{array}{\|l} \hline 10250 \mathrm{~T} 6087 \\ \text { 10250T6097 } \\ \text { 10250T6547 } \\ \text { 10250T6107 } \\ \text { 10250T6117 } \\ \text { 10250T6127 } \\ \text { 10250T6137 } \end{array}$ | 7 |  | $\begin{array}{\|c\|} \hline 6 \\ 12 \\ 24 \\ 48 \\ 120 \\ 240 \\ \hline \end{array}$ | 10250T6327 10250 T 6337 10250 T 6347 10250 T 6357 10250 T 6427 10250 T 6437 | 7 |  |

(1) $\mathrm{M}=$ Maintained. $\mathrm{S}=$ Spring return in direction of arrow $(\rightarrow)$.
(2) Operator includes lens gasket and lens attachment screws.
${ }^{(3)}$ For selection of the proper cam and contact block, to obtain the proper circuit sequence, see selection table on Pages 47-133-47-134.
(4) Full voltage light units can be used at other than listed voltages by changing lamp. Replacement lamps are listed on Page 47-157.
(5) Resistor type. May generate excess heat if used in high density.

Table 47-218. Illuminated Knobs and Levers

| Color ${ }^{\text {(6) }}$ | Knob |  | Lever |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Cat. and Code No. | $\begin{aligned} & \text { Price } \\ & \text { U.S. \$ } \end{aligned}$ | Cat. and Code No. | Price U.S. \$ |
| Red | 10250TER |  | 10250TFR |  |
| Green | 10250TEG |  | 10250TFG |  |
| Yellow | 10250TEA |  | 10250TFA |  |
| Blue | 10250TEL |  | 10250TFL |  |
| Clear | 10250TEC |  | 10250TFC |  |
| White | 10250TEW |  | 10250TFW |  |
| Amber | 10250TEM |  | 10250TFM |  |

[^0]| 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 Symbo | 1CD1C |


[^0]:    ${ }^{(6)}$ Amber, Clear and White lenses have a black arrow (pointer), Red, Green and Blue lenses have a white arrow (pointer).

