

## 30mm Selector Switch

Use this worksheet to help you determine the correct three position 30mm selector switch for your customer's application.



- 1 What circuits do you want open or closed in each of the three positions?  
(The letters indicate each circuit, you do not have to use them all.)

Contact Sequence 0-contact open    1-contact closed	←	↑	↗
Circuit A			
Circuit B			
Circuit C			
Circuit D (optional)			

- 2 Do you need this switch metallic or non-metallic?  
 Metallic                       Non-metallic
- 3 Do you need this switch to be non-illuminated or illuminated?  
 Non-illuminated                       Illuminated
- 3a If illuminated, what is your voltage?  
 6Vac                       12Vac                       24Vac                       120Vac
- 3b If illuminated, what is your type of lamp?  
 Full voltage                       Transformer                       LED red                       LED green
- 4 What type of operator do you need?  
 Manual return                       Spring return from left to center  
 Spring return from right to center                       Spring return both sides to center
- 5 What type of handle do you require?  
 Standard knob                       Gloved-hand knob                       Coin operated  
 Key operated (non-illuminated)
- 6 What color of handle do you require?  
 Black                       Red                       Green                       Yellow                       Orange  
 Blue                       White                       Amber                       Clear

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Follow the steps below to locate and build the part number you need. Page numbers refer to Schneider Electric's Digest 174, Schneider Electric's product catalog. If you do not have a copy of this product catalog, please request one from your local representative or visit [www.us.SquareD.com](http://www.us.SquareD.com).

## Determine the operator:

- 1 Determine the contact sequence(s) required. Set up a target table like the one shown for the example below. (In this example, when the switch is in the left position circuit A is closed while B and C are open, in the middle position circuit B is closed while A and C are open, and in the right position, circuit C is closed while A and B are open.)

Contact Sequence		←	↑	↗
0-contact open	1-contact closed			
Circuit A		1	0	0
Circuit B		0	1	0
Circuit C		0	0	1

- 2 Go to Digest 174, Page 19-64, Table 19.179. Look for a cam type common to all sequences in table A. For the example above, A (1 0 0), B (0 1 0) and C (0 0 1), cam types F and L are common to all three sequences.
- 3 Next, use the cam type common to all the sequences (if several cam types are common, choose one). To find the operator type number, go to the proper page number as listed below:
  - Metallic non-illuminated – Page 19-61
  - Metallic illuminated – Page 19-62
  - Non-metallic non-illuminated – Page 19-73
  - Non-metallic illuminated – Page 19-74
- 4 Select the proper column based on the cam being used. For example, if you are using the type F cam on Page 19-61 for metallic non-illuminated, your operator number would begin with 9001KS46.
- 5 The next code will be your knob code at the bottom of the Digest pages, or K\* for key operated.
  - \* Add key withdrawal codes from table above the select switch knobs.
- 6 If illuminated, determine the illumination code from Page 19-77, Table 19.219 (column 6). If choosing the illuminator module separate, use column 4 and add "9001" to the beginning of the part number.

## Determine the contact blocks:

- 1 Return to Page 19-64. Using Table 19.179, determine the contact block required depending on what cam you are using. For the F cam in the above example, 1 0 0 sequence would require 1 9001KA3 on side 2. The 0 1 0 sequence requires a 9001KA3 on side 2. The 0 0 1 sequence lists a 9001KA2 on either side 2 or side 1. Since (1) 9001KA2 + (1) 9001KA3 = (1) 9001KA1 you would then recommend 1 9001KA1 and 1 9001KA3 to both be on side 2 of the switch.

## Still need help, call 888.SquareD

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