

CAM SWITCHES

T Series / G Series / R Series

T Series

12-40 A

Model **RY**/BY
Model **RK**/BK
Model **RM**/BM
Model **RT**/BT
Model **RP**/BP
Model **RQ**/BQ

G Series

12-630 A

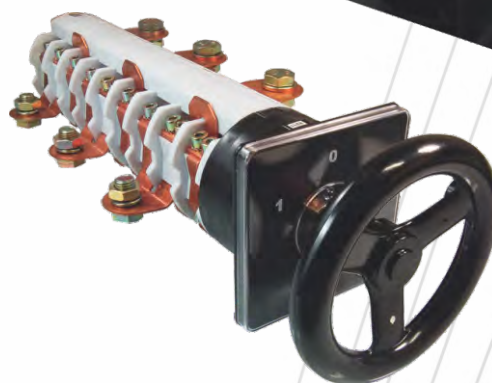
Model **GL**
Model **DI**
Model **LK**
Model **IK**
Model **TL**
Model **LL1**
Model **KS**
Model **CO**

R Series

12-25 A

Model **RY**/BY
Model **RK**/BK
Model **GL**
Model **LL1**
Model **TL**
Model **LK**





We recommend you to follow these simple steps to choose the best cam switch that suits your needs.

STEP 1:

Choose Series (T,G,R)

According to the General features sections (Pages 20,31 & 47), and also your general requirements and economical considerations choose your desired series.

T Series

- Current Rating from 1
- IP65 degree protection
- Highest Technical Spe
- Attractive appearance
- High variety of functio

T Series: Page 20

G Series

- Complete current rati
- Conformity with Intern
- Wide range of switch
- Made of best material
- Fast and easy installa

G Series: Page 31

R Series

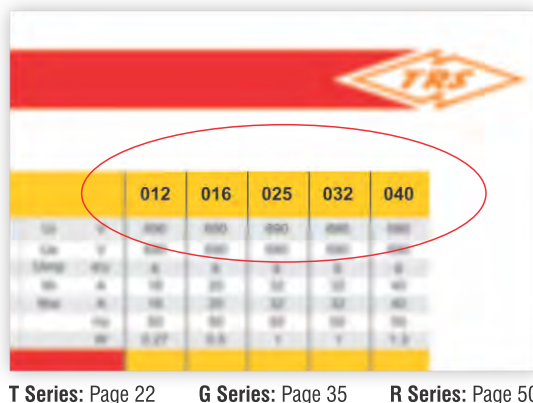
- Current rating from 12
- New rectangular desig
- IP65 protection degree
- IP20 protection degree
- Fast and easy installat

R Series: Page 47

STEP 2:

Choose the 3 Digit Amp Code

Keeping into account the load nature (resistive, inductive or mixed) and the load value and in accordance with the technical data tables (Pages 22,35 & 48) you can choose the 3 digit Amp code of the suitable switch, for instance 063 stands for 63 Amperes.

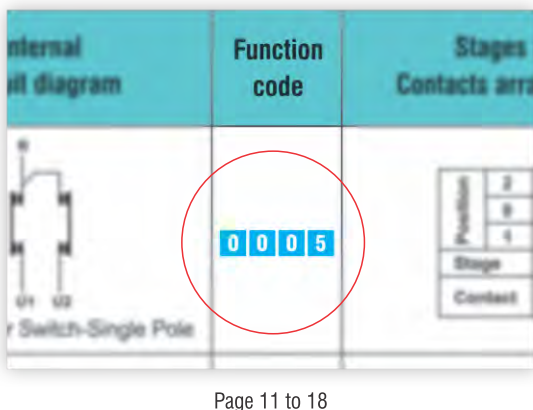


T Series: Page 22 G Series: Page 35 R Series: Page 50

STEP 3:

Choose the switch function code

Based on your requested function, number of poles and steps, external and internal connections of the cam switch, (according to pages 11 to 18) Choose the function code of your switch, which is a 4 character code. For instance 0010 stands for 3 pole Stardelta switch.

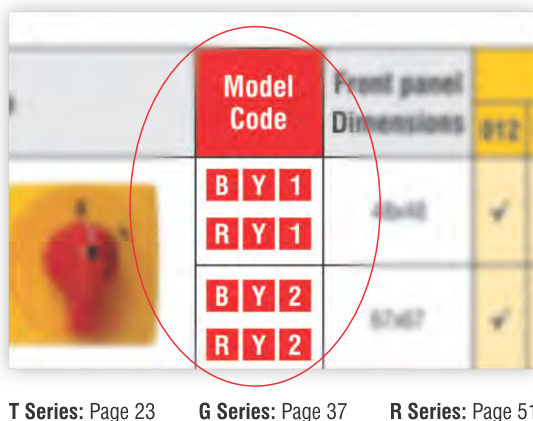


Page 11 to 18

STEP 4:

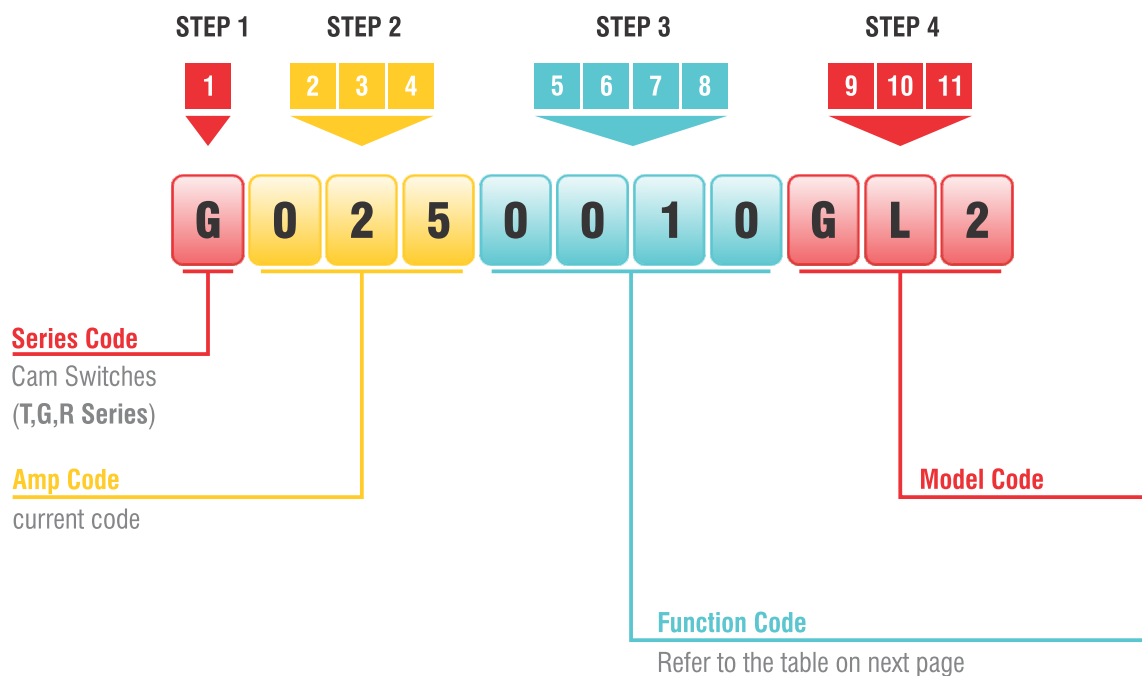
Choose the model code

Finally according to the mounting method of the switch (front mounting, surface mounting, interlocking with panel's door or enclosure), required degree of protection (IP), type and color of plate and knob, choose the appropriate version of the switch this is a 3 character code which is shown in Model selection tables and in the page of each model.



T Series: Page 23 G Series: Page 37 R Series: Page 51

Each Cam switch is defined using a unique 11 digit code:



Example:

part number **G.025.0010.GL2** stands for G series Three poles 25A star-delta switch with black plate & knob in 75x75 mm size.

Note:

If your requested switch function is not present on the common functions table on pages 11 to 18 or you would like to fully configure your cam switch, you may order a custom made cam switch using our special ordering forms designed for this purpose on pages 60 & 61. TRS Co. is always ready to manufacture your special orders. TRS Co. factory has over 5000 custom made cam switch designed in its archives.

Rotary Cam Switches can be offered in a wide variety of functions. The most commonly used functions are introduced in the following table.

On each row one function is described, rotation angle, internal circuit diagram, function code, number of stages and contacts, terminal symbols are illustrated.

If your desired function is not present on this list, please refer to the customized switch ordering forms on pages (60 & 61). Our tech dept. will always be ready to assist customers regarding their desired products.

Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1L2L3RST																							
0001	 60°	 ON/OFF Switch-Single Pole	<table><tr><td rowspan="2">Position</td><td>1</td><td>X</td><td></td></tr><tr><td>0</td><td></td><td></td></tr><tr><td>Stage</td><td colspan="2">1</td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td></td></tr></table>	Position	1	X		0			Stage	1			Contact	1-2	3-4										
Position	1	X																									
	0																										
Stage	1																										
Contact	1-2	3-4																									
0002	 60°	 ON/OFF Switch-2 Poles	<table><tr><td rowspan="2">Position</td><td>1</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td></tr><tr><td>Stage</td><td colspan="2">1</td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td></td></tr></table>	Position	1	X	X	0			Stage	1			Contact	1-2	3-4										
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Stage	1	2																									
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0004	 60°	 ON/OFF Switch-4 Poles	<table><tr><td rowspan="2">Position</td><td>1</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td></td></tr></table>	Position	1	X	X	X	X	0					Stage	1	2				Contact	1-2	3-4	5-6	7-8		
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Stage	1	2																									
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Cam Switch Functions Code Table



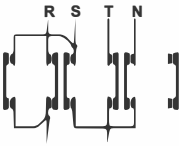
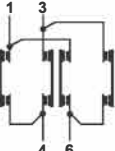
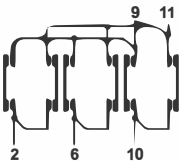
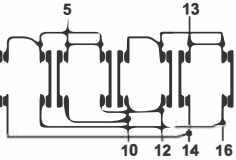
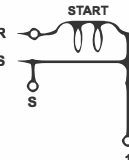
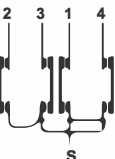
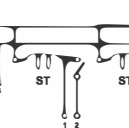
Cam Switches

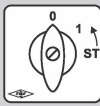
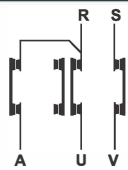
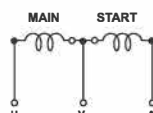
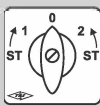
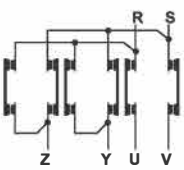
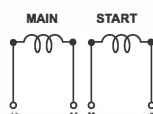
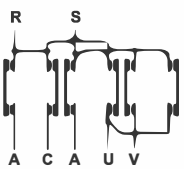
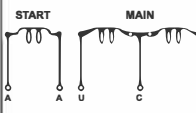
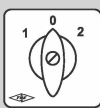
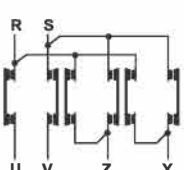
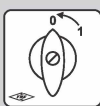
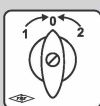
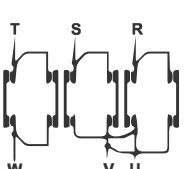
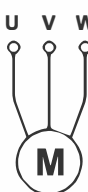
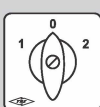
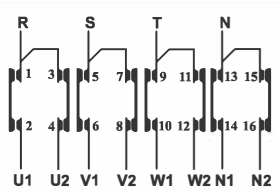
Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1 L2 L3 R S T																																																																
0 0 0 5	 60°	 Change-Over Switch-Single Pole	<table><tr><td>Position</td><td>2</td><td></td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td></td></tr><tr><td>1</td><td></td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td></td></tr></table>	Position	2		X	0		X		1				Stage	1			Contact	1-2	3-4																																														
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0 0 0 6	 60°	 Change-Over Switch-2 Poles	<table><tr><td>Position</td><td>2</td><td></td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td></tr></table>	Position	2		X	X	0		X			1			X		Stage	1	2			Contact	1-2	3-4	5-6	7-8																																								
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0 0 0 7	 60°	 Change-Over Switch-3 Poles	<table><tr><td>Position</td><td>2</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td></tr></table>	Position	2		X	X	X	0		X				1			X			Stage	1	2	3			Contact	1-2	3-4	5-6	7-8	9-10																																			
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0 0 0 8	 60°	 Reversing Switch-3 Poles	<table><tr><td>Position</td><td>2</td><td></td><td>X</td><td>X</td><td></td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td></tr></table>	Position	2		X	X		X	0		X			X		1			X	X			Stage	1	2	3				Contact	1-2	3-4	5-6	7-8	9-10	11-12																														
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0 0 0 9	 60°	 Pole Changing Switch (Dahlander)	<table><tr><td>Position</td><td>2</td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td></td><td></td><td>X</td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td>X</td><td></td><td>X</td><td>X</td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td>4</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td><td>13-14</td></tr></table>	Position	2	X	X	X		X	X	0		X			X			1			X		X	X		Stage	1	2	3	4				Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14																									
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Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14																																																													
0 0 1 0	 60°	 Y-Δ Starter	<table><tr><td>Position</td><td>Δ</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Y</td><td></td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td>4</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td><td>13-14</td></tr></table>	Position	Δ	X	X	X	X	X	X	Y		X		X	X	X	X	0								Stage	1	2	3	4				Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14																									
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Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14																																																													
0 0 1 1	 45°	 Pole Change and Reversing Switch-3 Poles	<table><tr><td>Position</td><td>2</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr><tr><td>1</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>2</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td><td>13-14</td></tr></table>	Position	2	X	X	X	X	X	X	0		X	X		X		X	1			X	X	X	X		0								1				X	X	X	X	2		X	X	X	X	X	X	Stage	1	2	3	4	5	6		Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14	
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Stage	1	2	3	4	5	6																																																														
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Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	
0 0 1 2	 45°	 Reversing Switch with Δ - Δ Starter		
0 0 1 3	 45°	 Pole Changing with Δ - Δ Starter	 Rotation 45°	
0 0 1 4	 60°	 Ammeter Switch for direct measurement (Without CT)		
0 0 1 5	 45°	 Voltmeter Switch with 3 (Ph-N)+off position		
0 0 1 6	 45°	 Voltmeter Switch with 3 (Ph-Ph)+off position		
0 0 1 7	 45°	 Voltmeter Switch with 3 (Ph-Ph)+off position for 2 systems		
0 0 1 8	 45°	 Voltmeter Switch with 3 (Ph-N) and 3 (Ph-Ph)+off position		

Cam Switch Functions Code Table



Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1 L2 L3 R S T																																																								
0019	 45°	 Voltmeter Switch with 3 (Ph-Ph) and 1 (Ph-N) +off position	<table><tr><td>Position</td><td>TR</td><td>X</td><td></td><td>X</td><td></td></tr><tr><td>0</td><td>ST</td><td></td><td>X</td><td>X</td><td></td></tr><tr><td>0</td><td>RS</td><td>X</td><td>X</td><td></td><td></td></tr><tr><td>0</td><td>RN</td><td>X</td><td></td><td></td><td></td></tr><tr><td>0</td><td></td><td></td><td></td><td>X</td><td></td></tr><tr><td>0</td><td></td><td></td><td></td><td></td><td>X</td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td></tr><tr><td></td><td></td><td></td><td></td><td>11-12</td><td></td></tr></table>	Position	TR	X		X		0	ST		X	X		0	RS	X	X			0	RN	X				0				X		0					X	Stage	1	2	3			Contact	1-2	3-4	5-6	7-8	9-10					11-12		L1 L2 L3 R S T 0 R S T N 		
Position	TR	X		X																																																								
0	ST		X	X																																																								
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0	RN	X																																																										
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Stage	1	2	3																																																									
Contact	1-2	3-4	5-6	7-8	9-10																																																							
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0020	 90°	 Single Pole Ammeter Switch-1CT	<table><tr><td>Position</td><td>R</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td>X</td></tr><tr><td>Stage</td><td>1</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td></td></tr></table>	Position	R	X	X	0		X	X	Stage	1			Contact	1-2	3-4		L1  1  3																																								
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Contact	1-2	3-4	5-6	7-8																																																								
0022	 90°	 Single Pole Ammeter Switch-3CT	<table><tr><td>Position</td><td>T</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>S</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>R</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td></tr></table>	Position	T	X	X	X	X	X	S		X	X	X	X	X	R		X	X	X	X	X	0		X	X	X	X	X	Stage	1	2	3				Contact	1-2	3-4	5-6	7-8	9-10	11-12	L1 L2 L3  11  9														
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0023	 90°	 Single Pole Ammeter Switch-4CT	<table><tr><td>Position</td><td>N</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>T</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>S</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>R</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>Stage</td><td>1</td><td>2</td><td>3</td><td>4</td><td></td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td><td>9-10</td><td>11-12</td><td>13-14</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15-16</td></tr></table>	Position	N	X	X	X	X	X	X	T		X	X	X	X	X	X	S		X	X	X	X	X	X	R		X	X	X	X	X	X	Stage	1	2	3	4				Contact	1-2	3-4	5-6	7-8	9-10	11-12	13-14								15-16	L1 L2 L3 N  13  5
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0029	 45°	 Change-Over Switch contactor with self return A to M	<table><tr><td>Position</td><td>A</td><td>X</td><td>X</td></tr><tr><td>M</td><td></td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td><td></td></tr><tr><td>M</td><td></td><td>X</td><td>X</td></tr><tr><td>A</td><td></td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td></td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td></td></tr></table>	Position	A	X	X	M		X	X	0				M		X	X	A				Stage	1			Contact	1-2	3-4		L1/R L2/S  1 2																												
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0030	 45°	 Reversing Change-Over Switch contactor with self return A to M	<table><tr><td>Position</td><td>A</td><td>X</td><td>X</td></tr><tr><td>M</td><td></td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td><td></td></tr><tr><td>M</td><td></td><td>X</td><td>X</td></tr><tr><td>A</td><td></td><td></td><td></td></tr><tr><td>Stage</td><td>1</td><td>2</td><td></td></tr><tr><td>Contact</td><td>1-2</td><td>3-4</td><td>5-6</td></tr><tr><td></td><td></td><td></td><td>7-8</td></tr></table>	Position	A	X	X	M		X	X	0				M		X	X	A				Stage	1	2		Contact	1-2	3-4	5-6				7-8	L1/R L2/S  1 2 3																								
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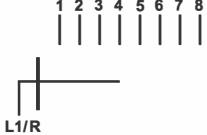
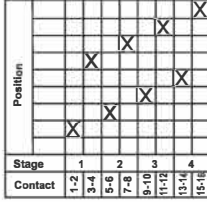
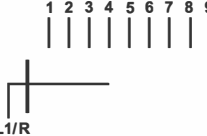
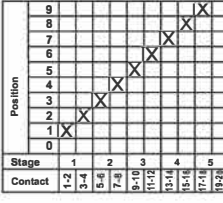
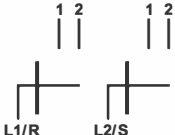
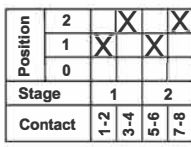
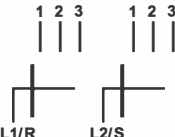
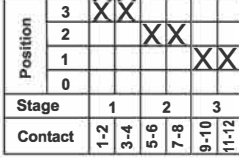
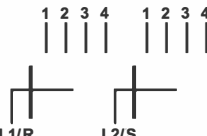
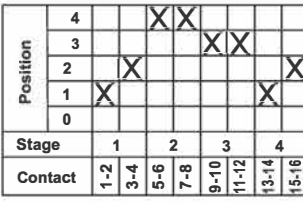
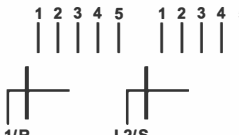
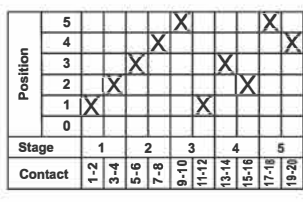
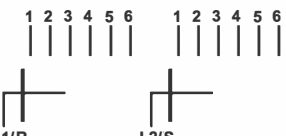
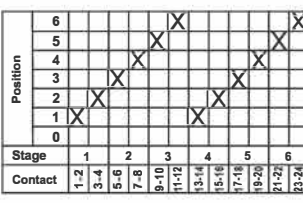
Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1 L2 L3	R S T																																						
0 0 3 1	 45°		<table><tr><td rowspan="3">Position</td><td>ST</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td>Stage</td><td></td><td>1</td><td>2</td><td></td><td></td></tr><tr><td>Contact</td><td></td><td>1-2</td><td>3-4</td><td>5-6</td><td>7-8</td></tr></table>	Position	ST	X	X	X	X	1					0					Stage		1	2			Contact		1-2	3-4	5-6	7-8												
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Cam Switch Functions Code Table



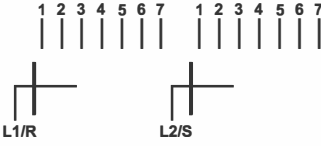
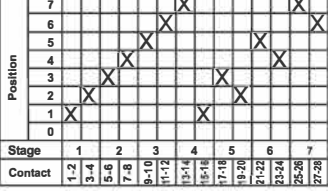
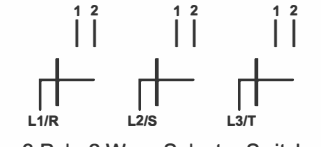
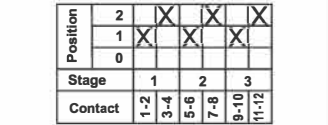
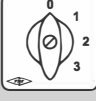
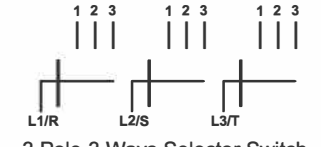
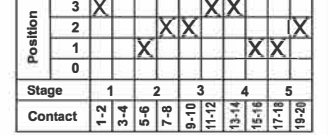
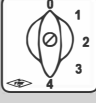
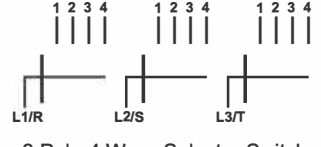
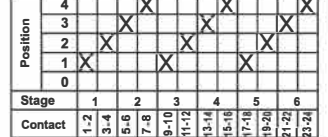
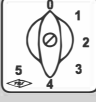
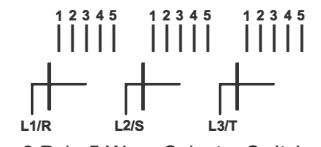
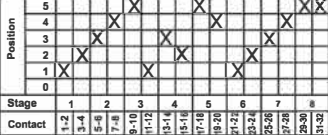
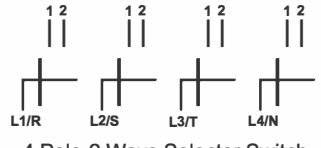
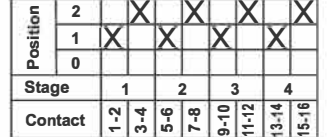
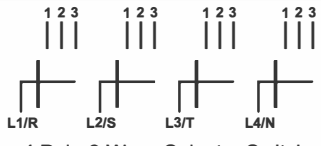
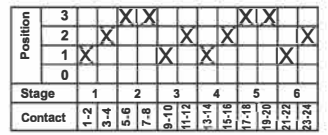
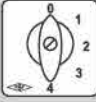
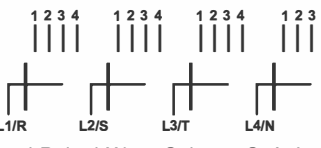
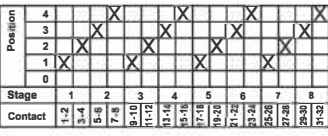
Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	
0 0 6 0	 90°	 Ammeter Voltmeter		
M Z 1 2 *	 45°	 1 Pole-2 Ways Selector Switch With "0" position		
M Z 1 3	 45°	 1 Pole-3 Ways Selector Switch With "0" position		
M Z 1 4	 45°	 1 Pole-4 Ways Selector Switch With "0" position		
M Z 1 5	 45°	 1 Pole-5 Ways Selector Switch With "0" position		
M Z 1 6	 45°	 1 Pole-6 Ways Selector Switch With "0" position		
M Z 1 7	 45°	 1 Pole-7 Ways Selector Switch With "0" position		

*. Function codes beginning with "MZ" start at "0" position. If you change "MZ" to "MN" The positions will start from "1"

Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1 L2 L3
M Z 1 8	 30°	 1 Pole-8 Ways Selector Switch With "0" position		
M Z 1 9	 30°	 1 Pole-9 Ways Selector Switch With "0" position		
M Z 2 2	 45°	 2 Pole-2 Ways Selector Switch With "0" position		
M Z 2 3	 45°	 2 Pole-3 Ways Selector Switch With "0" position		
M Z 2 4	 45°	 2 Pole-4 Ways Selector Switch With "0" position		
M Z 2 5	 45°	 2 Pole-5 Ways Selector Switch With "0" position		
M Z 2 6	 45°	 2 Pole-6 Ways Selector Switch With "0" position		

Cam Switch Functions Code Table



Function code	Positions & Rotation Angles	Internal circuit diagram	Stages and Contacts arrangement	L1 L2 L3 RST
M Z 2 7	 45°	 2 Pole-7 Ways Selector Switch With "0" position		
M Z 3 2	 45°	 3 Pole-2 Ways Selector Switch With "0" position		
M Z 3 3	 45°	 3 Pole-3 Ways Selector Switch With "0" position		
M Z 3 4	 45°	 3 Pole-4 Ways Selector Switch With "0" position		
M Z 3 5	 45°	 3 Pole-5 Ways Selector Switch With "0" position		
M Z 4 2	 45°	 4 Pole-2 Ways Selector Switch With "0" position		
M Z 4 3	 45°	 4 Pole-3 Ways Selector Switch With "0" position		
M Z 4 4	 45°	 4 Pole-4 Ways Selector Switch With "0" position		



SERIES

Cam Switches

12-40 A

T Series

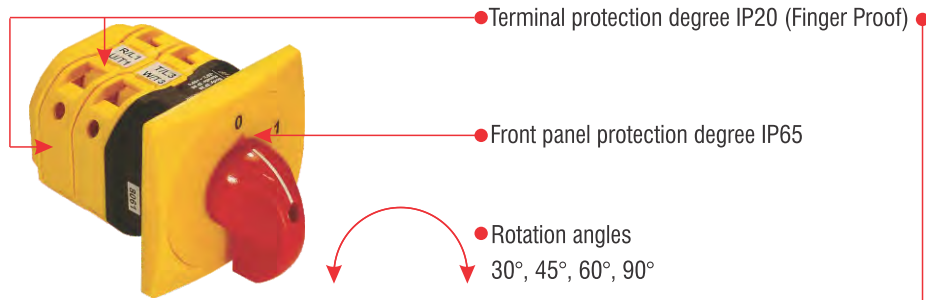


- ▶ Current Rating from 12A to 40A
- ▶ IP65 degree protection of front panel
- ▶ Highest Technical Specifications
- ▶ Attractive appearance & Modular design
- ▶ High variety of functions & models

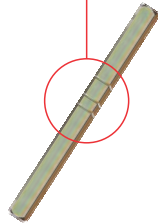
Model **RY** / **BY**
Model **RK** / **BK**
Model **RM** / **BM**
Model **RT** / **BT**
Model **RP** / **BP**
Model **RQ** / **BQ**

Cam Switches
T Series

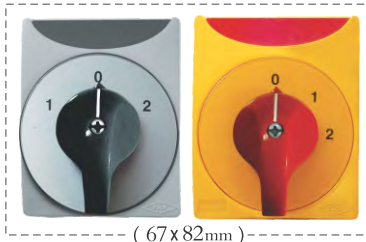
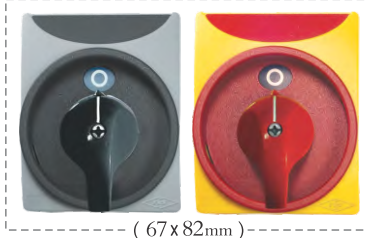
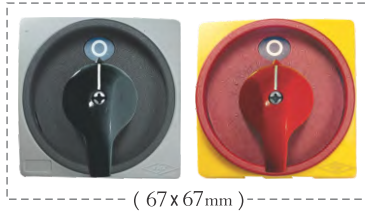
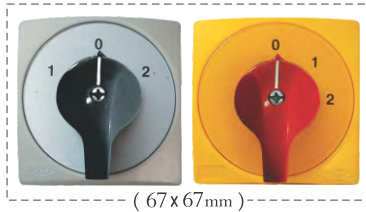
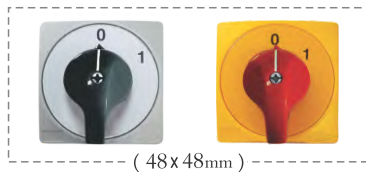
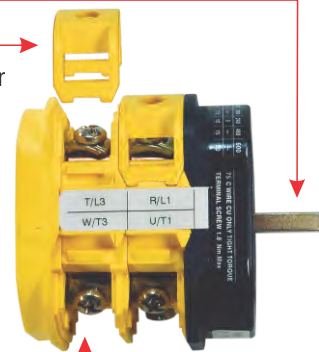




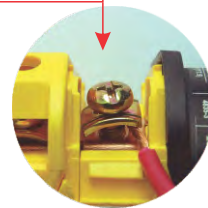
The length of the shaft that comes out of the cam switch is adjustable without any need to disassemble the switch. Using a simple mechanism, the shaft can be released to stay out 7mm more, or 4mm less, from its original position.



Removable Terminal Cover

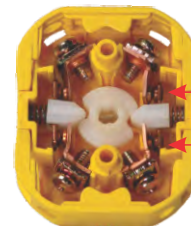


Terminal screws equipped with self-raising washers to facilitate wiring.



Front panel knob and plate are available in two colors and three sizes; normal or with padlock holes.

Double-break bimetal contacts made of silver alloy and copper.



Non-electrical parts of cam switch are manufactured by reinforced flame retardant class V-0 polyamide with UL94 flammability safety and high mechanical and electrical resistance.

Technical data table



Cam Switches
T Series

Amper Code			012	016	025	032	040
Rated insulation voltage	Ui	V	690	690	690	690	690
Rated operating voltage	Ue	V	690	690	690	690	690
Rated impulse withstand voltage	Uimp	KV	6	6	6	6	6
Rated thermal current for open switch	Ith	A	16	20	32	32	40
Rated thermal current for enclosed switch	Ithe	A	16	20	32	32	40
Rated operating frequency		Hz	50	50	50	50	50
Rated dissipation for each pole		W	0.27	0.5	1	1	1.3
Rated operating current							
AC-21A Switching resistive loads, including moderate overloads	Ie	A	12	16	25	32	40
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	Ie	A	12	16	20	25	32
AC-20A Connecting and disconnecting under no load conditions			—	—	—	—	—
Rated operating power							
AC-23A Switching of motor loads or other highly inductive loads 3 phase-3pole	230V Kw(A)	3(9)	4(14)	7.5(24)	8.5(27)	10(32)	
	400V Kw(A)	4(9)	7.5(14)	11(20)	15(27)	18.5(30)	
	500V Kw(A)	—	—	11(15)	15(22)	18.5(27)	
	690V Kw(A)	—	—	11(11)	15(16)	18.5(19)	
AC-23A Switching of motor loads or other highly inductive loads 1 phase-2pole	110V Kw(A)	0.75(8.5)	1.1(12)	2.2(25)	2.2(25)	3(34)	
	230V Kw(A)	1.5(8.5)	2.2(14)	3.7(20)	3.7(20)	5.5(30)	
AC-3 Squirrel cage motors: Starting, switching off motors during running 3 phase-3 pole	230V Kw(A)	22(7)	3.7(12)	5.5(17)	5.5(17)	7.5(24)	
	400V Kw(A)	3.5(7)	5.5(10)	9.5(16)	10(17)	15(27)	
	500V Kw(A)	—	—	9.5(12.5)	10(14)	15(22)	
	690V Kw(A)	—	—	8.5(10)	10(10)	16(16)	
AC-3 Squirrel cage motors: Starting, switching off motors during running 1 phase-2 pole	110V Kw(A)	0.37(4)	0.75(9)	1.5(17)	1.5(17)	2.2(25)	
	230V Kw(A)	1.1(6)	1.5(8)	3(17)	3(17)	4.5(25)	
	400V Kw(A)	—	—	—	—	—	
AC-4 Squirrel cage motors: Starting, plugging, inching	230V Kw(A)	—	—	22(7)	22(7)	3(10)	
	400V Kw(A)	—	—	3(5.5)	3(5.5)	5.5(10)	
AC-15 Control of AC electromagnetic loads	230V A	4	6	8	8	10	
	400V A	3	4	6	6	8	
Rated breaking capability in category in AC-23A (cos ^Φ =0.45)	230V A	72	112	192	216	256	
	400V A	72	112	160	216	240	
Short circuit protection							
Rated short time withstand current	Icw	A	150	240	400	400	500
Rated short-circuit make capacity	Icm	A	—	—	2000	2000	2000
Rated conditional short-circuit current		KA	4	4	10	10	10
With fuses class gG	500v	A	16	20	35	35	50
Protection against short circuit			NDZ	NDZ	NDZ	NDZ	DZ
Maximum current rapid and Time-delay fuses for open version		A	16	20	35	35	50
Maximum current for Time-delay fuses for version in box		A	—	16	25	25	40
Rated interruption power		A	96	128	260	260	400
		V _{ac}	418	418	660	660	660
		Cos(Φ)	0.65	0.65	0.35	0.35	0.35
Electrical life		Cycles×10 ⁶	0.5	0.8	1	1	0.3
Mechanical life		Cycles×10 ⁶	2	2	2	2	2
		Cycles/hour	120	120	120	120	120
Rated insulation voltage	UL	V	600	600	600	600	600
Rated operating voltage	UL	V	600	600	600	600	600
General Use Current	UL	A	12	16	25	32	40
Rated operating power							
1 phase - 2 pole	120V Hp (A)	0.5	1	2	2	3	
	240V Hp (A)	1.5	2	3	3	5	
3 phase - 3 pole	200V Hp (A)	1.5	2	5	5	7.5	
	240V Hp (A)	2	3	5.5	7.5	10	
	480V Hp (A)	3	7.5	10	10	15	
	600V Hp (A)	5	7.5	15	15	20	
Connections according to IEC 9471-1 AND EN 60947-1							
Connecting capability with flexible wires	Min-Max	mm ²	2×1.5-4	2×1.5-4	2×2.5-10	2×2.5-10	2×2.5-10
	Min-Max	AWG	16-10	16-10	16-8	16-8	16-8
Connecting capability with solid wires	Min-Max	mm ²	2×1.5-2.5	2×1.5-2.5	2×2.5-6	2×2.5-6	2×2.5-6
Connecting terminal screw dimensions		Type	M3.5×7	M3.5×7	M5×16	M5×10	M5×10
Screw tightening torque		Nm	1.0	1.0	1.7	1.7	1.7
Protection degree IEC 529 EN 60529							
Terminal		IP	00				
Ambient conditions							
Operating ambient temperature		°C	-25~+55				
Storage ambient temperature		°C	-30~+70				
Withstand to constant humid according to IEC 60068			2-78				
Withstand to cyclic humid according to IEC 60068			2-30				
Altitude		m	Max:2000m				
Humidity		Percent	Max:90%				
Pollution degree			3				
Installation Group			Ⅲ				

Picture	Model Code	Front panel Dimensions	Amp Code					Ref. to Page	Short Description
			012	016	025	032	040		
 	B Y 1	48x48	✓	✓				25	Ip65 General use Attractive design Front & base mounting options DIN rail mounting option (optional adapter)
	R Y 1								
	B Y 2	67x67	✓	✓	✓	✓	✓		
	R Y 2								
 	B Y 3	67x82	✓	✓	✓	✓	✓		
	R Y 3								
 	B K 2	67x67	✓	✓	✓	✓	✓	26	All RY/BY models Specifications + Lockable with a padlock
	R K 2								
 	B K 3	67x82	✓	✓	✓	✓	✓		
	R K 3								
 	B M 2	67x67			✓	✓	✓	27	All RY/BY models Specifications + Panel door interlocking mechanism
	R M 2								
 	B M 3	67x82			✓	✓	✓		
	R M 3								
 	B T 1	48x48	✓	✓				28	All RY/BY models Specifications + Snap-on 22mm mounting hole Designed to be easily installable by hand only
	R T 1								
	B T 2	67x67	✓	✓	✓	✓	✓		
	R T 2								
 	B T 3	67x82	✓	✓	✓	✓	✓		
	R T 3								

Model Selection Table



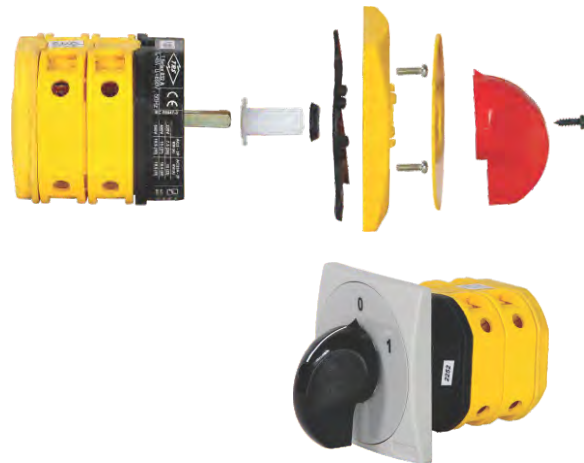
Picture	Model Code	Front panel Dimensions	Amp Code					Ref. to Page	Short Description
			012	016	025	032	040		B: Black knob & Gray rectangular plate R: Red knob & Yellow rectangular plate
 	B P 2 R P 2	67x67			✓	✓	✓	29	All RY/BY models Specifications + Lockable with a padlock Panel door interlocking mechanism
	B P 3 R P 3	67x82			✓	✓	✓		
 	B Q 3 R Q 2	67x67	✓	✓	✓	✓	✓	30	All RY/BY models Specifications + Lockable with a padlock Snapp-on 22mm mountin holes Easy to connect wires by hand only
	B Q 3 R Q 3	67x82	✓	✓	✓	✓	✓		

Cam Switches
T Series

RY-BY Model

Features

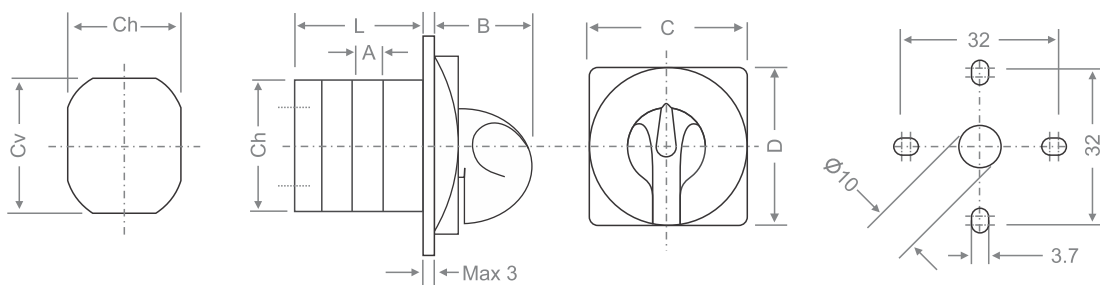
- ▶ Most generally used model
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BY:** Black knob & Gray rectangular front plate
- ▶ **RY:** Red knob & Yellow rectangular front plate
- ▶ In comparison with BY2/Ry2 model, the BY3/Ry3 model, has an additional area for label stand, with a transparent protection cover



RY-BY Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
B: Black knob & Gray rectangular plate R: Red knob & Yellow rectangular plate  	B Y 1 R Y 1	48x48	✓	✓			
	B Y 2 R Y 2	67x67	✓	✓	✓	✓	✓
 	B Y 3 R Y 3	67x82	✓	✓	✓	✓	✓

Technical drawings & drilling guide:



RY&BY							
Switch Amp Code	Cv	Ch	NO.Of Stages				
			1	2	3	4	5
0 1 2	53	43	39	51	63	75	87
0 1 6	53	43	39	51	63	75	87
0 2 5	64	54	44	60	76	92	108
0 3 2	64	54	44	60	76	92	108
0 4 0	64	54	44	60	76	92	108
Model Code			A	B	C	D	
R Y 1	B Y 1		12	37	48	48	
R Y 2	B Y 2		16	39	68	68	
R Y 3	B Y 3		16	39	68	83	

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

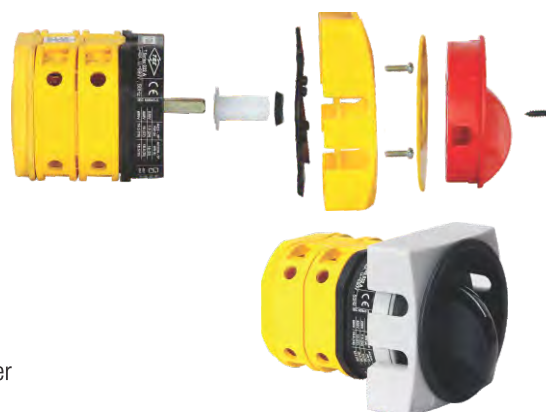
LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.

RK-BK Model

Features

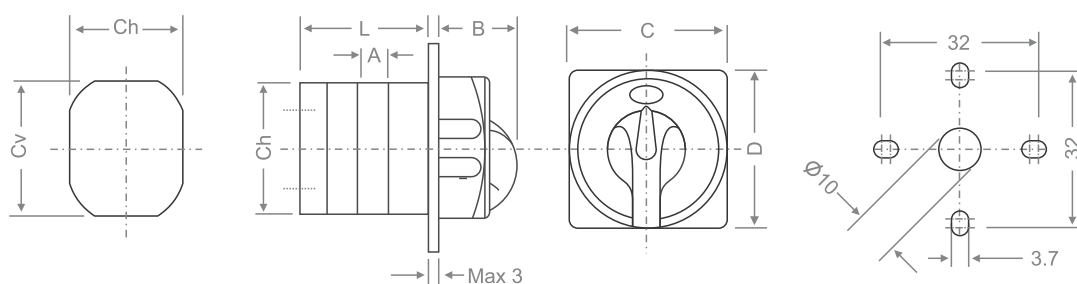
- ▶ Lockable with a small padlock in three positions
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BK**: Black knob & Gray rectangular front plate
- ▶ **RK**: Red knob & Yellow rectangular front plate
- ▶ In comparison with BK2/RK2 model, the BK3/RK3 model, has an additional area for label stand, with a transparent protection cover



RK-BK Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
B: Black knob & Gray rectangular plate R: Red knob & Yellow rectangular plate	B K 2 R K 2	67x67	✓	✓	✓	✓	✓
	B K 3 R K 3	67x82	✓	✓	✓	✓	✓

Technical drawings & drilling guide:



RK&BK							
Switch Amp Code	Cv	Ch	NO.Of Stages				
			1	2	3	4	5
			L*				
0 1 2	53	43	39	51	63	75	87
0 1 6	53	43	39	51	63	75	87
0 2 5	64	54	44	60	76	92	108
0 3 2	64	54	44	60	76	92	108
0 4 0	64	54	44	60	76	92	108
Model Code			A**	B	C	D	
R K 2	B K 2		16	39	68	68	
R K 3	B K 3		16	39	68	83	

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.

**For T012 & T016 dimension "A" is 12 mm..

RM-BM Model

Features

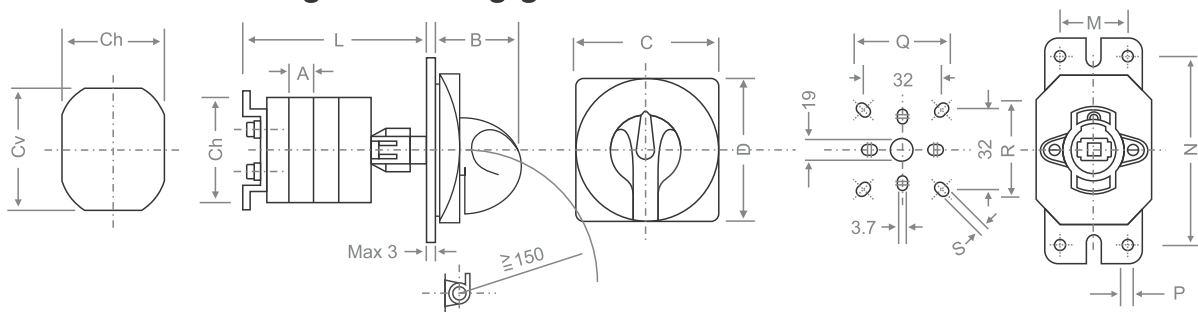
- ▶ In order to maintain safety, this model has an extended shaft and interlocking mechanism with the panel/box door, so it can be opened only when the cam switch is set to OFF position.
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BM**: Black knob & Gray rectangular front plate
- ▶ **RM**: Red knob & Yellow rectangular front plate
- ▶ In comparison with BM2/RM2 model, the BM3/RM3 model, has an additional area for label stand, with a transparent protection cover



RM-BM Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
	B M 2 R M 2	67x67			✓	✓	✓
	B M 3 R M 3	67x82			✓	✓	✓

Technical drawings & drilling guide:



RM&BM										
Switch Amp Code	Cv	Ch	M	N	P	NO.Of Stages				
						1	2	3	4	5
						L*				
0 2 5	64	54	18	72	4.3	96	112	128	144	160
0 3 2	64	54	18	72	4.3	96	112	128	144	160
0 4 0	64	54	18	72	4.3	96	112	128	144	160
Model Code			A		B	C	D	Q	R	S
R M 2	B M 2		16		39	68	68	36-38	36-38	3.5
R M 3	B M 3		16		39	68	83	36-48	36-48	3.7

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.

RT-BT Model

Features

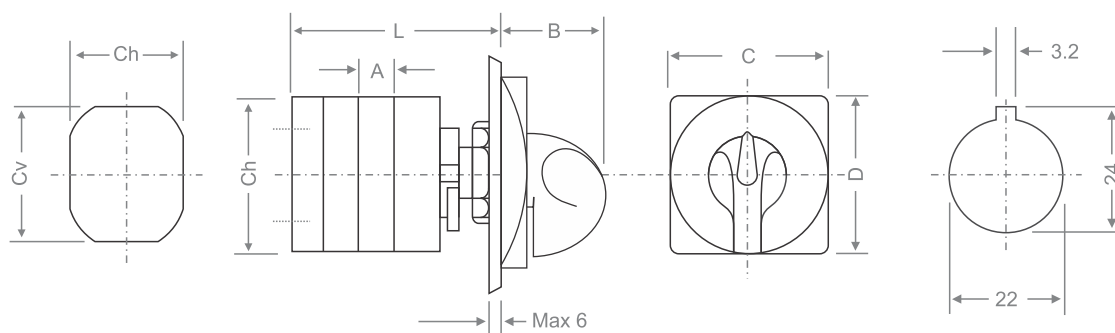
- ▶ Snap-on 22mm mounting hole
- ▶ Designed to be easily installable by hand only
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BT**: Black knob & Gray rectangular front plate
- ▶ **RT**: Red knob & Yellow rectangular front plate
- ▶ In comparison with BT2/RT2 model , the BT3/RT3 model, has an additional area for label stand, with a transparent protection cover



RT-BT Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
	B T 1 R T 1	48x48	✓	✓			
	B T 2 R T 2	67x67	✓	✓	✓	✓	✓

Technical drawings & drilling guide:



RT&BT							
Switch Amp Code	Cv	Ch	NO.Of Stages				
			1	2	3	4	5
			L*				
0 1 2	53	43	65	77	89	102	Max 6
0 1 6	53	43	65	77	89	102	Max 6
Model Code			A	B	C	D	
R T 1	B T 1		12	37	48	48	
R T 2	B T 2		12	39	68	68	
R T 3	B T 3		12	39	68	83	

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

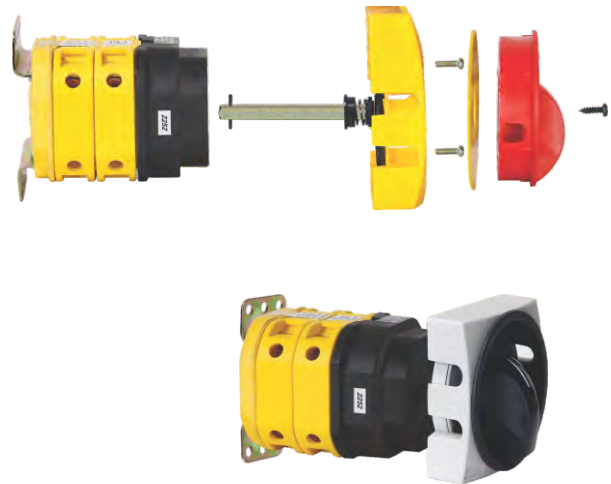
LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.

RP-BP Model

Features

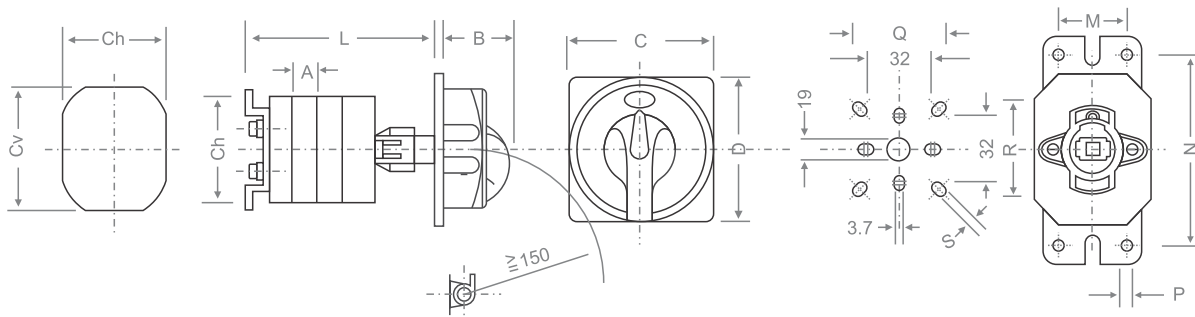
- ▶ In order to maintain safety, this model has an interlocking mechanism with the panel/box door, so it can be opened only when the cam switch is set to OFF position.
- ▶ Lockable with a small padlock in three positions
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BP**: Black knob & Gray rectangular front plate
- ▶ **RP**: Red knob & Yellow rectangular front plate
- ▶ In comparison with BP2/RP2 model, the BP3/RP3 model, has an additional area for label stand, with a transparent protection cover



RP-BP Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
	B P 2 R P 2	67x67			✓	✓	✓
	B P 3 R P 3	67x82			✓	✓	✓

Technical drawings & drilling guide:



RP&BP															
Switch Amp Code	Cv	Ch	M	N	P	NO.Of Stages									
						1	2	3	4	5					
						L*									
0 2 5	64	54	18	72	4.3	96	112	128	144	160					
0 3 2	64	54	18	72	4.3	96	112	128	144	160					
0 4 0	64	54	18	72	4.3	96	112	128	144	160					
Model Code			A		B		C		D		Q	R	S		
R P 2			B P 2		16		39		68		68		36-38	36-38	3.5
R P 3			B P 3		16		39		68		83		36-48	36-48	3.7

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.

RQ-BQ Model

Features

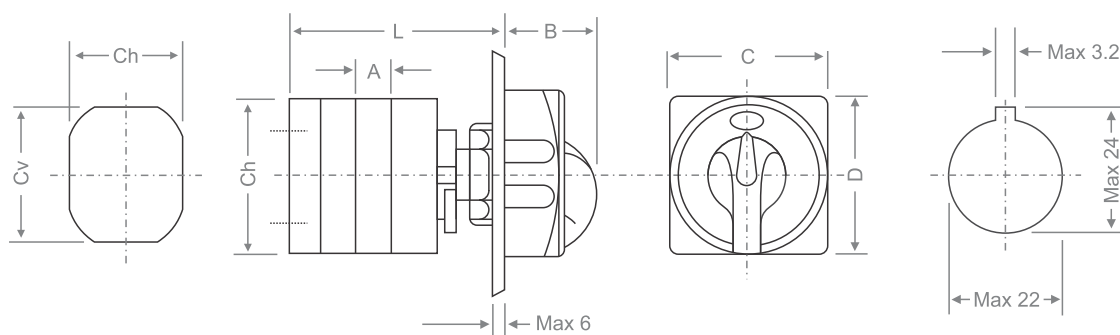
- ▶ In order to maintain safety, this model has an interlocking mechanism with the panel/box door, so it can be opened only when the cam switch is set to OFF position.
- ▶ Snap-on 22mm mounting holes
- ▶ Easy to connect wires by hand only
- ▶ IP65 degree of protection against dust and water
- ▶ Attractive design
- ▶ Front & base mounting options
- ▶ DIN rail mounting option (optional adapter)
- ▶ **BQ:** Black knob & Gray rectangular front plate
- ▶ **RQ:** Red knob & Yellow rectangular front plate
- ▶ In comparison with BQ2/RQ2 model, the BQ3/RQ3 model, has an additional area for label stand, with a transparent protection cover



RQ-BQ Model Selection Table

Picture	Model Code	Front panel Dimensions	Amp Code				
			0 1 2	0 1 6	0 2 5	0 3 2	0 4 0
 	B Q 3 R Q 2	67x67	✓	✓	✓	✓	✓
 	B Q 3 R Q 3	67x82	✓	✓	✓	✓	✓

Technical drawings & drilling guide:



RQ&BQ							
Switch Amp Code	Cv	Ch	NO.Of Stages				
			1	2	3	4	5
			L*				
0 1 2	53	43	65	77	89	102	Max 6
0 1 6	53	43	65	77	89	102	Max 6
Model Code			A	B	C	D	
R Q 2	B Q 2		12	39	68	68	
R Q 3	B Q 3		12	39	68	83	

*. For stages more than 5, please add one "A" for each stage, to the "L" of the cam switch.

LX=L1+(X-1)xA

L1=L of a one-stage cam switch, X=Number of Stages, LX=L of a cam switch with X stages.