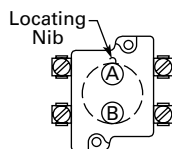


Roto-Push Units**Two-Position Momentary**

Complete assembled two-position Roto-Push® Units are listed below. These operators have black flush buttons and are arranged for vertical mounting. Order legend plates separately.

Mounting Location**Roto-Push—Black Flush Button****Roto-Push Units—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13**

Typical Applications (Most Common Examples)	Operator Position ①		Collar Right		Contact Type	Mounting Location		Catalog Number ②
	Collar Left		Collar Right			A	B	
Two-Position	Normal	Depressed	Normal	Depressed				
FORWARD/REVERSE; HIGH/LOW; OPEN/CLOSE; UP/DOWN; etc.	0 0	0 X	0 0	X 0	1NO 1NO			10250T2411-2
JOG/RUN; MAN./AUTO; etc.	0 0	X 0	0 X	X X	1NO 1NO			10250T24111-2
RUN/JOG; START/JOG; etc.	0 X	X X	0 0	X 0	1NO 1NC			10250T24111-1
SAFE/RUN; etc.	0 0	0 0	0 X	X X	1NO 1NO			10250T2415-2

Two-Position Latched

The two-position Roto-Push Latch Unit is fully assembled and only requires a legend plate for a great variety of applications. When the selector collar is in the extreme left position, the button is in the free or normal position and can be operated as a standard pushbutton. Rotating the collar to the

extreme right position automatically depresses and latches the button in the depressed position. The white filled groove in the button indicates the selector collar position. The selector collar has spring return to the left position except when in the extreme right latched position.

Red Long**Rotates to a Latch-Out Mode**

Color and Type of Button	Contact Block	Vertical Mounting Catalog Number
Red long	1NC	10250T72
	2NC	10250T73

Notes

① X = closed circuit, 0 = open circuit.

② Roto-Push assembled with contact blocks.

Roto-Push Operators

Roto-Push Components

A Roto-Push control unit combines the function of a pushbutton and a selector switch. The contacts are operated by the combined action of rotating the outer collar and pushing a button contained in the collar.

In selecting the cam and contact blocks for the listed function, the analysis involves considering the function with the collar rotated to the given position with the button free (designated as “N”) and then in that same position with the button depressed (designated “D”). This is done for each rotational position of the collar.

When Ordering Specify

- Catalog number of operator with cam code suffix from tables below and on following pages, Example: 10250T2411.
- Catalog number(s) for contact blocks and legend plates if required.
- To select the cam and contact blocks needed for two-position and three-position switches, use the tables on following pages.

Operator and Cam



Operator and Cam

Color and Type of Button	Cam Code No. Select from Tables	Vertical Mounting Catalog and Code Number	Horizontal Mounting Catalog and Code Number
Black flush	+ 1 to 18	10250T241_	10250T251_
Red flush ^①		10250T242_	10250T252_
Green flush		10250T243_	10250T253_
Black long		10250T261_	10250T271_
Red long ^①		10250T262_	10250T272_
Green long		10250T263_	10250T273_

Two-Position Roto-Push Operator—Rotates to a Latch-Out Mode Special Rotor Latch

This differs from the other Roto-Push operators in that as the collar is rotated to the right it depresses the button and releases the button when rotated left. But the button in the released position can be momentarily pushed independent of the collar or

its position. As the button is depressed by rotating the collar, the button also rotates and indicates its mode by a white line on the button face. This button can be used as an emergency stop or latched stop.

Special Roto Latch—Red Long Button



Special Rotor Latch—UL (NEMA) Type 3, 3R, 4, 4X, 12, 13

Color and Type of Button	Vertical Mounting Catalog Number
Red long	10250T3213
Black long	10250T3214

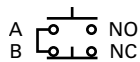
Note

^① Not to be used for emergency stop application.

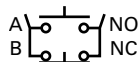
Cam and Contact Block Selection for Two-Position Roto-Push

Combination Number	Collar Position		Circuit Sequence ^①		Cam Code 1	Cam Code 2	Cam Code 3	Cam Code 4	Cam Code 5	Cam Code 6
	N	D	N	D						
1	0	0	0	X	A  NO	A  NO	—	—	A  NO	—
2	0	0	X	0	—	—	—	A  NC B  NO	A  NC B  NO	—
3	0	0	X	X	—	—	—	—	B  NO	A  NO
4	0	X	0	0	B  NO	A  NC B  NO	—	—	—	A  NC B  NO
5	0	X	0	X	A  NO B  NO	B  NO	—	A  NO	—	—
6	0	X	X	0	—	—	—	—	—	—
7	0	X	X	X	—	—	A or B NO	B  NO	—	B  NO
8	X	0	0	0	—	—	A or B NC	B  NC	—	B  NC
9	X	0	0	X	—	—	—	—	—	—
10	X	0	X	0	A  NC B  NC	B  NC	—	A  NC	—	—
11	X	0	X	X	B  NC	A  NO B  NC	—	—	—	A  NO B  NC
12	X	X	0	0	—	—	—	—	B  NC	A  NC
13	X	X	0	0	—	—	—	A  NO B  NC	A  NO B  NC	—
14	X	X	X	0	A  NC	A  NC	—	—	A  NC	—

Series and Parallel Connections



Series Connection



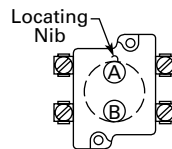
Parallel Connection

The connections are not made at the factory. They are illustrated in the selection table as requirements, but must be made on the job.

Note

① N = Button in free or normal position. D = Button depressed.

Circuit Location

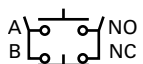
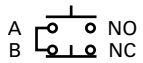


Letters "A" and "B" represent the locations which the two circuits of a contact block will occupy in relation to the locating nib of the operator.

Cam and Contact Block Selection for Two-Position Roto-Push, continued

Combination Number	Collar Position				Cam Code 10	Cam Code 11	Cam Code 12	Cam Code 13	Cam Code 14
	Circuit Sequence ①								
	N	D	N	D					
15	0	0	0	X	—		—	—	—
16	0	0	X	0	—		A NC	A or B NC	A NC
17	0	0	X	X	B NO	B NO	—	—	—
18	0	X	0	0	A NO		—	—	B NO
19	0	X	0	X	—	A NO	B NO	—	—
20	0	X	X	0	—	—	—	—	
21	0	X	X	X				—	—
22	X	0	0	0			A NO B NC	—	—
23	X	0	0	X	—	—	—	—	
24	X	0	X	0	—	A NC	B NC	—	—
25	X	0	X	X	A NC		—	—	B NC
26	X	X	0	0	B NC	B NC	—	—	—
27	X	X	0	0	—		A NO	A or B NO	A NO
28	X	X	X	0	—		—	—	—

Series and Parallel Connections

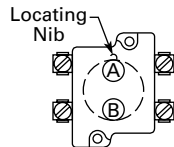


The connections are not made at the factory. They are illustrated in the selection table as requirements, but must be made on the job.

Note

① N = Button in free or normal position. D = Button depressed.

Circuit Location



Letters “A” and “B” represent the locations which the two circuits of a contact block will occupy in relation to the locating nib of the operator.

Cam and Contact Block Selection for Three-Position Roto-Push

Combination Number	Collar Position						Cam Code 7	Cam Code 8	Cam Code 9	Cam Code 15 ②	Cam Code 16	Cam Code 17	Cam Code 18
	Circuit Sequence ①												
	N	D	N	D	N	D							
1	0	0	0	0	0	X			—			—	
2	0	0	0	0	X	X	—	—		—	—		—
3	0	0	0	X	0	0	—	—		—	—	—	
4	0	0	0	X	0	X	—	—	—	—	—	—	
5	0	0	0	X	X	X	—	—		—	—	—	—
6	0	0	X	X	0	0	—		—	—	—	—	—
7	0	0	X	X	0	X	—		—	—	—	—	—
8	0	0	X	X	X	0		—	—	—	—	—	—
9	0	0	X	X	X	X		—	—	—	—	—	—
10	0	X	0	0	0	0			—				
11	0	X	0	0	0	X		—	—			—	—
12	0	X	0	0	X	X	—	—	—	—	—		—
13	0	X	0	X	0	0	—	—	—	—	—	—	
14	0	X	0	X	0	X	—	—	—	—	—	—	
15	0	X	X	X	0	0	—		—	—	—	—	—
16	0	X	X	X	0	X	—		—	—	—	—	—
17	0	X	X	X	X	X		—	—	—	—	—	—

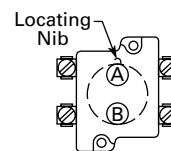
Series and Parallel Connections

Series Connection

Parallel Connection

The connections are not made at the factory. They are illustrated in the selection table as requirements, but must be made on the job.

Circuit Location



Letters “A” and “B” represent the locations which the two circuits of a contact block will occupy in relation to the locating nib of the operator.

Notes

- ① N = Button in free or normal position. D = Button depressed.
 ② Limited to 4 contact blocks. See Note on **Page V7-T1-236**.