

Our oiltight operators are tough and rugged for your heavy-duty applications. Our push buttons are Type 13 oiltight, and are built for durability and harsh environments.

## Bulletin 800MR

- 22.5 mm mounting hole
- Type 13 oiltight
- Round operators

## Bulletin 800MB

- 22.5 mm mounting hole
- Type 13 oiltight
- Square backlit operators

## Momentary Contact Push Buttons – 800MR

### Non-illuminated



Flush Head Unit  
Cat. No. 800MR-A1B



Extended Head Unit  
Cat. No. 800MR-B2A



Mushroom Head Unit  
Cat. No. 800MR-D2B

800MR -   A     1     A           
          a      b      c      d

a	
Operator Type <sup>(1)</sup>	
Code	Description
A	Flush head
B	Extended head
D	Mushroom head

b	
Button Color	
Code	Description
1	Green
2	Black
3	Orange
4	Gray
5	White
6	Red
7	Blue
9	Yellow

c	
Standard Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C.
A2	2 N.O.
A3	1 N.O.E.M. - 1 N.C.L.B.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C.
D1	1 N.O.
D2	1 N.C.

d	
Contact Block Termination Type <sup>(2)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) Guards must be ordered separately.

(2) Logic Reed and small screw blocks can be ordered separately.

## Illuminated



Flush Head Unit  
Cat. No. 800MR-QA24GA



Extended Head Unit  
Cat. No. 800MR-PB16RA



Mushroom Head Unit  
Cat. No. 800MR-QMB24RA

800MR - PA L 24 R  
a b c d e f

a	
Operator	
Transformer	
Code	Description
PA	Flush <sup>(1)</sup>
PB	Extended
PMB	Mushroom
Full Voltage	
Code	Description
QA	Flush <sup>(1)</sup>
QB	Extended
QMB	Mushroom

b	
Illumination Options	
Code	Description
Blank	Standard illumination as determined by power module type
L	LED <sup>(4)</sup>

c	
Input Voltage	
Full Voltage	
Code	Description
12	12 24V AC/DC
24	24 24V AC/DC
10	120V AC <sup>(5)</sup>
Transformer	
Code	Description
16	120V AC 50/60 Hz
26	240V AC 50/60 Hz

d	
Lens Color	
Code	Color
A	Amber
B	Blue
C	Clear
G	Green
R	Red
W	White
X	No lens with contact blocks
Blank	No lens without contact blocks

e	
Standard Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C.
A2	2 N.O.
A3	1 N.O.E.M. - 1 N.C.L.B.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C. <sup>(2)</sup>
D1	1 N.O.
D2	1 N.C.

f	
Contact Block Termination Type <sup>(3)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) Guards must be ordered separately.

(2) Only available with full-voltage power module option and standard stab terminations.

(3) Logic Reed and small screw blocks must be ordered separately.

(4) LEDs available in red, green, amber, blue, and white. LED color must match lens color, except clear lens supplied with white LED and white lens supplied with amber LED.

(5) Only available with LED illumination option.

# Push-pull and Push-pull/Twist-to-release Units – 800MR

## 2-position Push-pull and Push-pull/Twist-to-release and 3-position Push-pull Units, Non-illuminated



2-position Push-pull  
Cat. No. 800MR-FX6A



2-position Push-pull/Twist  
Cat. No. 800MR-FXT6A4



3-position Push-pull  
Cat. No. 800MR-FXN6A7

**800MR** - FX T          6 A          (2-position)  
                  a      b      c      d      e      f

**800MR** - FX N          6 A          (3-position)  
                  a      b<sub>1</sub>      c      d      e      f

a	
Operator Type	
Code	Description
FX	Push-pull unit

b	
Operator Function, 2-position	
Code	Description
Blank	Maintained – push-pull
T	Twist-release

b <sub>1</sub>			
Operator Function, 3-position <sup>(1)</sup>			
Code	Operator Position		
	Out	Center	In
N	Momentary	Maintained	Momentary

c	
Operator	
Code	Color
Blank	Non-illuminated

d	
Button Color	
Code	Color
1	Green
2	Black
3	Orange
4	Gray
5	White
6	Red
7	Blue
9	Yellow
Blank	No cap

e	
Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C.
A2	2 N.O.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C.
D1	1 N.O.
D2	1 N.C.






**Note:** See [Table 51](#) for target description.

f	
Contact Block Termination Type <sup>(2)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) Not available in twist release.

(2) Logic Reed and small screw blocks must be ordered separately.

Table 51 - Target Selection

Code	2-Position		Contact Description	3-Position			Code
							
	Out	In		Out	Center	In	
Blank	–	–	No contacts	–	–	–	Blank
D1	0	X	N.O.	–	–	–	–
D2	X	0	N.C.	–	–	–	–
A	0 X	X 0	N.O. - N.C.	0 X	0 0	X 0	A
A2	0 0	X X	N.O. - N.O.	0 0	0 0	X X	A2
A4	X X	0 0	N.C. - N.C.	X X	0 0	0 0	A4
–	–	–	N.C. - N.C.L.B.	X X	0 X	0 0	A7
B	0 X 0 X	X 0 X 0	N.O. - N.C. N.O. - N.C.	0 X 0 X	0 0 0 0	X 0 X 0	B

**Note:**  
X = Closed/0 = Open

**2-position Push-pull and Push-pull/Twist-to-release and 3-position Push-pull Units, Illuminated**



Illuminated 2-position Push-pull  
Cat. No. 800MR-FXQ24RA



Illuminated 2-position Push-pull/Twist  
Cat. No. 800MR-FXTP16RA






Illuminated 3-position Push-pull  
Cat. No. 800MR-FXNQ24RA7

<b>800MR</b>	–	<b>FX</b>	<b>T</b>	<b>P</b>		<b>16</b>	<b>R</b>	<b>A</b>	(2-position)
	a	b	c	d	e	f	g	h	
<b>800MR</b>	–	<b>FX</b>	<b>N</b>	<b>P</b>		<b>16</b>	<b>R</b>	<b>A</b>	(3-position)
	a	b <sub>1</sub>	c	d	e	f	g	h	

a	
Operator Type	
Code	Description
FX	Push-pull unit

b	
Operator Function, 2-position	
Code	Description
Blank	Maintained
T	Twist-release

b <sub>1</sub>			
Operator Function, 3-position			
Code	Operator Position		
			
	Out	Center	In
N	Momentary	Maintained	Momentary

c	
Operator Type	
Code	Description
P	Transformer
Q	Full voltage

d	
Illumination Options	
Code	Description
Blank	Incandescent lamp
L	LED <sup>(1)</sup>

e	
Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(2)</sup>
Transformer	
Code	Description
16	120V AC 50/60 Hz
26	240V AC 50/60 Hz






f	
Button Color	
Code	Color
A	Amber
B	Blue
C	Clear
G	Green
R	Red
W	White <sup>(4)</sup>
X	No cap

g	
Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C.
A2	2 N.O.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C. <sup>(5)</sup>
D1	1 N.O.
D2	1 N.C.
<b>Note:</b> See <a href="#">Table 52</a> for target description.	

h	
Contact Block Termination Type <sup>(3)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) LEDs available in red, green, amber, blue, and white. LED color must match lens color, except clear lens supplied with white LED and white lens supplied with amber LED.  
 (2) Only available with LED Illumination option.  
 (3) Logic Reed and small screw blocks must be ordered separately.  
 (4) Not available in twist release.  
 (5) Only available with full-voltage power module option and standard stab terminations.

Table 52 - Target Selection

Code	2-Position		Contact Description	3-Position			Code
							
	Out	In		Out	Center	In	
Blank	—	—	No contacts	—	—	—	Blank
D1	0	X	N.O.	—	—	—	—
D2	X	0	N.C.	—	—	—	—
A	0 X	X 0	N.O. - N.C.	0 X	0 0	X 0	A
A2	0 0	X X	N.O. - N.O.	0 0	0 0	X X	A2
A4	X X	0 0	N.C. - N.C.	X X	0 0	0 0	A4
—	—	—	N.C. - N.C.L.B.	X X	0 X	0 0	A7
B	0 X 0 X	X 0 X 0	N.O. - N.C. N.O. - N.C.	0 X 0 X	0 0 0 0	X 0 X 0	B

**Note:**  
X = Closed/0 = Open

## Selector Switch Units – 800MR

### 2-position Selector Switch Units, Non-illuminated



Standard Knob Operator  
Cat. No. 800MR-HH2BLA



Knob Lever Operator  
Cat. No. 800MR-HK2BLA



Cylinder Lock Operator  
Cat. No. 800MR-H31BB

800MR - **H H 2 B L A** (Selector Switch)

a b c d e e<sub>1</sub> f

800MR - **H 31 B L A** (Cylinder Lock)

a b c<sub>1</sub> c<sub>2</sub> d e e<sub>1</sub> f

a	
Operator Positions	
Code	Description
H	2-position selector switch
H	2-position cylinder lock

b	
Operator Color and Type <sup>(1)</sup>	
Standard Knob	
Code	Description
X	No knob
H	Black
Knob Lever	
X	No knob lever
K	Black
Cylinder Lock	
Blank	Key

c	
Operator Function	
Standard Knob	
Code	Description
2	Maintained
4	Spring return from left
5	Spring return from right

c <sub>1</sub>	
Operator Function/Locking Position <sup>(2)</sup>	
Maintained	
Code	Description
31	Lock in left
32	Lock in right
33	Lock in both
Spring Return from Left	
42	Lock in right
Spring Return from Right	
48	Lock in left

c <sub>2</sub>		
Key Codes <sup>(3)</sup>		
Code	Key No.	Master Key
Blank	T100 (standard)	1T
02	T101	1T
03	T102	1T
04	T106	1T
05	T107	1T
07	T109	2T
08	T134	2T
09	T135	2T
10	T136	2T

d	
Cam Type	
Code	Description
B	B cam

e	
Contact Cartridge Position	
Code	Description
Blank	Both left and right
L	Left

e <sub>1</sub>	
Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C. <sup>(4)</sup>
A2	2 N.O. <sup>(4)</sup>
A4	2 N.C. <sup>(4)</sup>
B	2 N.O. - 2 N.C. <sup>(5)</sup>
D1	1 N.O. <sup>(4)</sup>
D2	1 N.C. <sup>(4)</sup>
P1	3 N.O. <sup>(5)</sup>
P2	3 N.C. <sup>(5)</sup>

14	T147	2T
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f	
Contact Block Termination Type <sup>(6)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

P3	2 N.O. - 1 N.C. <sup>(5)</sup>
P4	2 N.C. - 1 N.O. <sup>(5)</sup>
P5	4 N.O. <sup>(5)</sup>
P6	4 N.C. <sup>(5)</sup>
P7	3 N.O. - 1 N.C. <sup>(5)</sup>
P8	1 N.O. - 3 N.C. <sup>(5)</sup>

**Note:** See [Table 53](#) for target description.

- (1) Red, green, blue, yellow, orange, gray, and white non-illuminated selector switch knobs and lever knobs must be ordered separately.
- (2) Key removable in locked position only.
- (3) If no optional key code is specified, the standard key (T100) is supplied.
- (4) Contact cartridge position code (Table e) must be L.
- (5) Contact cartridge position code (Table e) must be Blank.
- (6) Logic Reed and small screw contact blocks must be ordered separately.

**Table 53 - Selector Switch Cam Targets**

Cam Description (2-position)			
Target		Operator Function	
		Maintained and spring return from right	Spring return from left
X	O	N.C.	N.O.
O	X	N.O.	N.C.

**Note:**  
X = Closed/O = Open

### 3-position Selector Switch Units, Non-Illuminated



Standard Knob Operator  
Cat. No. 800MR-JH2BB



Knob Lever Operator  
Cat. No. 800MR-JK2BB



Cylinder Lock Operator  
Cat. No. 800MR-J44BB

<b>800MR</b>	-	<b>J</b>	<b>H</b>	<b>2</b>	<b>B</b>	<b>L</b>	<b>A</b>	(Selector Switch)	
		a	b	c	d	e	e <sub>1</sub>	f	
<b>800MR</b>	-	<b>J</b>		<b>41</b>		<b>B</b>	<b>L</b>	<b>A</b>	(Cylinder Lock)
		a	b	c <sub>1</sub>	c <sub>2</sub>	d	e	e <sub>1</sub>	f

a	
Operator Positions	
Code	Description
J	3-position selector switch
J	3-position cylinder lock

b	
Operator Color and Type <sup>(1)</sup>	
Standard Knob	
Code	Description
X	No knob
H	Black
Knob Lever	
X	No knob
K	Black
Cylinder Lock	
Blank	Key

c	
Operator Function	
Code	Description
2	Maintained
4	Spring return from left
5	Spring return from right
9	Spring return from both

c <sub>1</sub>	
Operator Function/Locking Position <sup>(2)</sup>	
Maintained	
Code	Description
41	Lock in left
42	Lock in center
43	Lock in right
44	Lock in all positions
45	Lock in left and center
46	Lock in right and left
47	Lock in right and center
Spring Return from Left	
50	Lock in center
52	Lock in right
51	Lock in right and center
Spring Return from Right	
69	Lock in left
38	Lock in center
73	Lock in left and center
Spring Return from Left and Right	
631	Lock in center <sup>(2)</sup>

c <sub>2</sub>	
Key Codes <sup>(3)</sup>	
1T Master Series	
Code	Key No.
Blank	T100 (standard)
02	T101
03	T102
04	T106
05	T107
2T Master Series	
07	T109
08	T134
09	T135

d	
Cam Type	
Code	Description
<b>B</b>	<b>B cam</b>
K	K cam
P	P cam
U	U cam

e	
Contact Cartridge Position	
Code	Description
Blank	Both left and right

e <sub>1</sub>		
Contact Cartridges		
Standard	Description	
Code	Left Side	Right Side
Blank	No contacts	
A <sup>(4)</sup>	1 N.O. - 1 N.C.	
A3 <sup>(4)</sup>	1 N.O.E.M. - 1 N.C.L.B.	
B <sup>(5)</sup>	1 N.O. - 1 N.C.	
p1 <sup>(5)</sup>	2 N.O.	1 N.O.
p2 <sup>(5)</sup>	2 N.C.	1 N.C.
p3 <sup>(5)</sup>	2 N.O.	1 N.C.
p4 <sup>(5)</sup>	2 N.C.	1 N.O.
p5 <sup>(5)</sup>	2 N.O.	2 N.O.

10	T136
14	T147

L	Left
R	Right

P6 <sup>(5)</sup>	2 N.C.	2 N.C.
P7 <sup>(5)</sup>	2 N.O.	1 N.O. - 1 N.C.
P8 <sup>(5)</sup>	2 N.C.	1 N.O. - 1 N.C.
pg <sup>(5)</sup>	1 N.O.	1 N.C.
T1 <sup>(5)</sup>	1 N.O. - 1 N.C.	1 N.C.

f	
Contact Block Termination Type <sup>(6)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

Note: See Table 54 for cam and contact block selection.

- (1) Red, green, blue, yellow, orange, gray, and white non-illuminated selector switch knobs and lever knobs must be ordered separately.
- (2) Key removable in locked position only.
- (3) If no optional key code is specified, the standard key (T100) is supplied.
- (4) Contact cartridge position code (Table e) must be L or R.
- (5) Contact cartridge position code (Table e) must be --.
- (6) Logic Reed and small screw contact blocks must be ordered separately.

Table 54 - Selector Switch Cam Targets

Note: X = Closed/O = Open			Cam Description							
Target			B		K		P		U	
			Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side
0	0	X	N.O.	N.O.	N.O.	—	N.O.	—	—	N.O.
X	0	0	N.C.	N.C.	—	N.O.	N.C.	N.O.	N.O.	—
0	X	X	N.O.E.M.	N.O.E.M.	—	N.C.L.B.	N.O.E.M.	N.C.L.B.	N.C.	—
X	X	0	N.C.L.B.	N.C.L.B.	N.C.L.B.	—	N.C.L.B.	—	—	N.C.
0	X	0	—	—	N.C.	N.C.	—	N.C.	—	—

### 4-position Selector Switch Units, Non-illuminated



Standard Knob Operator  
Cat. No. 800MR-NH2QB



Knob Lever Operator  
Cat. No. 800MR-NK2QB



Cylinder Lock Operator  
Cat. No. 800MR-N31QB

800MR - N H 2 0 B \_\_\_\_\_ (Selector Switch)  
          a    b    c    d    e    f

800MR - N \_\_\_\_\_ 31 \_\_\_\_\_ 0 B \_\_\_\_\_ (Cylinder Lock)  
          a    b    c<sub>1</sub>   c<sub>2</sub>   d    e    f

a	
Operator Positions	
Code	Description
N	4-position selector switch
N	4-position cylinder lock

b	
Operator Color and Type <sup>(1)</sup>	
Standard Knob	
Code	Description
X	No knob
H	Black
Knob Lever	
X	No knob
K	Black
Cylinder Lock	
Blank	Key

c	
Operator Function <sup>(2)</sup>	
Code	Description
2	Maintained

c <sub>1</sub>	
Operator Function/Locking Position <sup>(3)</sup>	
Standard Key	
Code	Description
31	Lock in position 1
32	Lock in position 2
33	Lock in position 3
34	Lock in position 4
41	Lock in position 1-2
42	Lock in position 1-3
43	Lock in position 1-4
44	Lock in position 2-3
45	Lock in position 2-4
46	Lock in position 3-4
51	Lock in position 1-2-3
52	Lock in position 1-2-4
53	Lock in position 1-3-4
54	Lock in position 2-3-4
61	Lock in all positions

c <sub>2</sub>		
Key Codes <sup>(4)</sup>		
Code	Key No.	Master Key
Blank	T100 (standard)	T1
02	T101	T1
03	T102	T1
04	T106	T1
05	T107	T1
07	T109	T2
08	T134	T2
09	T135	T2
10	T136	T2
14	T147	T2

d					
Cam Type and Target Table					
0					
Target				Contact Type (Rear View)	
				Left	Right
0	0	0	X	1 N.O.	–
0	0	X	0	1 N.C.	–
0	X	0	0	–	1 N.O.
X	0	0	0	–	1 N.C.

Note: X = Closed/0 = Open

e	
Contact Cartridges	
Standard Block/ Stab Terminations	
Code	Description
Blank	No contacts
B	2 N.O. - 2 N.C.

f	
Contact Block Termination Type <sup>(5)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

- (1) Red, green, blue, yellow, orange, gray, and white non-illuminated selector switch knobs and knob levers must be ordered separately.
- (2) Operators are maintained in all positions.
- (3) Key removable in locked position only.
- (4) If no optional key code is specified, the standard key (T100) is supplied.
- (5) Logic Reed and small screw contact blocks must be ordered separately.

## 2-position and 3-position Knob/Lever Type Selector Switch Units, Illuminated



Standard Knob Operator  
Cat. No. 800MR-24HA2BRA



Knob Lever Operator  
Cat. No. 800MR-24HL2BRA

800MR - 24 H A L 2 B R A  
a b c d e f g<sub>1</sub> g<sub>2</sub> h

a	
Input Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(2)</sup>
Transformer	
16	120V AC 50/60 Hz
26	240V AC 50/60 Hz

b	
Operator Positions	
Code	Description
H	2-position
J	3-position

d	
Illumination Options	
Code	Description
Blank	Incandescent
L	LED <sup>(6)</sup>

c	
Operator Color and Type	
Standard Knob	
Code	Description
X	No knob
A	Red
B	Green
D	Amber
Y	Clear
Knob Lever	
X	No knob
L	Red
M	Green
P	Amber
Z	Clear

e	
Operator Function	
Code	Description
2	Maintained
4	Spring return from left
5	Spring return from right
9	Spring return from both

f	
Cam Type (2-position)	
Code	Description
B	B cam

Note: For Target arrangements, see [Table 55](#).

f <sub>1</sub>	
Cam Type (3-position)	
Code	Description
B	B cam
K	K cam
P	P cam
U	U cam

Note: For Target arrangements, see [Table 56](#).

g <sub>1</sub>	
Contact Cartridge Position	
Code	Description
R	Right

h	
Contact Block Termination Type <sup>(7)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

g <sub>2</sub>		
Contact Cartridges		
Description		
Code	Left Side	Right Side
Blank	No contacts	
A <sup>(1)</sup>	–	1 N.O. - 1 N.C.
A2 <sup>(1)(3)</sup>	–	2 N.O.
A3 <sup>(1)</sup>	–	1 N.O.E.M.- 1 N.C.L.B.
A4 <sup>(1)(3)</sup>	–	2 N.C.
B <sup>(4)(5)</sup>	1 N.O. - 1 N.C.	1 N.O. - 1 N.C.
D1 <sup>(1)(3)</sup>	–	1 N.O.
D2 <sup>(1)(3)</sup>	–	1 N.C.
P1 <sup>(4)(5)</sup>	2 N.O.	1 N.O.
P2 <sup>(4)(5)</sup>	2 N.C.	1 N.C.
P3 <sup>(4)(5)</sup>	2 N.O.	1 N.C.
P4 <sup>(4)(5)</sup>	2 N.C.	1 N.O.
P5 <sup>(4)(5)</sup>	2 N.O.	2 N.O.
P6 <sup>(4)(5)</sup>	2 N.C.	2 N.C.
P7 <sup>(4)(5)</sup>	2 N.O.	1 N.O. - 1 N.C.
P8 <sup>(4)(5)</sup>	2 N.C.	1 N.O. - 1 N.C.
P9 <sup>(4)(5)</sup>	1 N.O.	1 N.C.
T1 <sup>(4)(5)</sup>	1 N.O. - 1 N.C.	1 N.C.

Note: See [Table 55](#) for 2-pos. contact block selection. See [Table 56](#) for 3-pos. contact block selection.

- (1) Contact cartridge position code (Table g<sub>1</sub>) must be R.
- (2) Only available with LED illumination option.

- (3) Logic Reed and small screw contact blocks must be ordered separately.
- (4) Only available with full voltage power module and standard stab terminations.
- (5) Contact cartridge position code (Table g<sub>1</sub>) must be –.
- (6) LEDs only available in red, green, amber, and white. Knob color must match LED color, except clear knob supplied with white LED.
- (7) Only available for 2-position selector switches

**Table 55 - Selector Switch Cam Targets**

Cam Description (2-position)			
Target		B	
		Maintained and Spring Return from Right	Spring Return from Left
X	O	N.C.	N.O.
O	X	N.O.	N.C.

**Note:**  
X = Closed/O = Open

**Table 56 - Selector Switch Cam Targets**

Cam Description (3-position)										
Target			B		K		P		U	
			Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side
O	O	X	N.O.	N.O.	N.O.	–	N.O.	–	–	N.O.
X	O	O	N.C.	N.C.	–	N.O.	N.C.	N.O.	N.O.	–
O	X	X	N.O.E.M.	N.O.E.M.	–	N.C.L.B.	N.O.E.M.	N.C.L.B.	N.C.	–
X	X	O	N.C.L.B.	N.C.L.B.	N.C.L.B.	–	N.C.L.B.	–	–	N.C.
O	X	O	–	–	N.C.	N.C.	–	N.C.	–	–

### 4-position Knob/Lever Type Selector Switch Units, Illuminated



Standard Knob Operator  
Cat. No. 800MR-24NA2QB



Knob Lever Operator  
Cat. No. 800MR-24NL2QB

800MR - 24 N A L 2 0 B h  
a b c d e f g h

a	
Input Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(3)</sup>

b	
Operator Positions	
Code	Description
N	4-position <sup>(1)</sup>

c	
Operator Color and Type	
Standard Knob	
Code	Description
X	No knob
A	Red
B	Green
D	Amber
Y	Clear
Knob Lever	
X	No knob
L	Red
M	Green
P	Amber
Z	Clear

d	
Illumination Options	
Code	Description
Blank	Incandescent
L	LED <sup>(2)</sup>

e	
Operator Function	
Code	Description
2	Maintained

f	
Cam Type and Target Table	
0	
Target	Contact Type (Rear View)
	Left
	Right
	1 N.O.
	–

g	
Contact Cartridge	
Standard Block	
Code	Description
B	2 N.O. - 2 N.C.

**Note:** X = Closed/O = Open

h	
Contact Block Termination Type <sup>(4)</sup>	
Code	Description
Blank	Stab terminals

0	0	X	0	1 N.C.	–
0	X	0	0	–	1 N.O.
X	0	0	0	–	1 N.C.

**Note:** X = Closed/0 = Open

- (1) Operator is maintained in all positions.
- (2) LEDs only available in red, green, amber, and white. Knob color must match LED color, except clear knob supplied with white LED.
- (3) Only available with LED Illumination option.
- (4) Logic Reed contact blocks must be ordered separately.

## Potentiometer Operator Only – 800MR

Type	Cat. No.
Operator only (without resistive element)	800MR-N37



## Pilot Light Units – 800MR



Pilot Light  
Cat. No. 800MR-Q24R



Push-to-test Pilot Light  
Cat. No. 800MR-QT24R

800MR -                    
           a      b      c      d      e

a	
Operator	
Transformer	
Code	Description
P	Pilot light
PDT <sup>(2)(3)</sup>	Pilot light – dual-input transformer
PT	Pilot light – push-to-test
Full Voltage	
Q	Pilot light
QT	Pilot light – push-to-test

b	
Illumination Options	
Code	Description
Blank	Incandescent
L	LED <sup>(1)</sup>

c	
Input Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(4)</sup>
Transformer	
16	120V AC 50/60 Hz
26	240V AC 50/60 Hz

d	
Lens Color	
Code	Color
Blank	No lens
A	Amber
B	Blue
C	Clear
G	Green
R	Red
W	White

e	
Contact Block Termination Type <sup>(5)</sup>	
Pilot Lights	
Code	Description
Blank	Stab terminals
K	Large screw <sup>(6)</sup>

**Note:** If large screw terminations are desired with a dual-input transformer (Cat. No. 800MR-PDT...), configurator space e must be left blank.

- (1) LEDs available in red, green, amber, blue, and white. LED color must match lens color, except clear lens supplied with white LED and white lens supplied with amber LED.
- (2) Dual-input transformer is transformer-relay type.
- (3) Comes standard with screw terminations.
- (4) Only available with LED illumination option.
- (5) Small screw contact blocks must be ordered separately.
- (6) Only available with Push-to-test units.

# Wobble Stick Units – 800MR



Wobble Stick Unit  
Cat. No. 800MR-M1B

800MR -   M1     A    
          a      b      c

a	
Operator Type	
Code	Description
M1	Wobble stick

b	
Contact Cartridges	
Code	Description
Blank	No contacts
A	1 N.O. - 1 N.C.
B	2 N.O. - 2 N.C.

c	
Contact Block Termination Type <sup>(1)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) Logic Reed and small screw contact blocks must be ordered separately.

# Momentary Contact Push Button Units – 800MB

## Non-illuminated

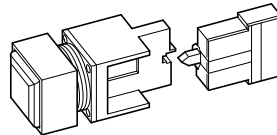


Flush Head Unit  
Cat. No. 800MB-CA1B



Extended Head Unit  
Cat. No. 800MB-CB1B

800   MB   -   CA     1     A    
          a      b      c      d      e



a	
Bezel Color <sup>(1)</sup>	
Code	Color
MB	Black

b	
Operator Type	
Code	Description
CA	Flush head
CB	Extended head

c	
Color Insert	
Code	Color
X	No color insert
1	Green
3	Orange
4	Gray
5	White
6	Red <sup>(3)</sup>
7	Blue
9	Yellow

d	
Contact Blocks	
Standard	
Code	Description
Blank	No contacts
D1	1 N.O.
D2	1 N.C.
A	1 N.O. - 1 N.C.
A2	2 N.O.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C.

e	
Contact Block Termination Type <sup>(2)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

(1) Gray bezel can be ordered separately.

(2) Logic Reed and small screw contact blocks must be ordered separately.

(3) Red flush head must be ordered separately.

# Illuminated

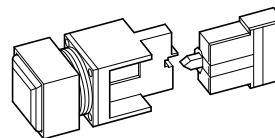


Flush Head Unit  
Cat. No. 800MB-CPA16GA



Extended Head Unit  
Cat. No. 800MB-CQB24RA

800 MB - CQ A L O6 R A  
a b c d e f g h



a	
Bezel Color <sup>(1)</sup>	
Code	Color
MB	Black

b	
Power Module Type	
Code	Description
CQ	Full voltage
CP	Transformer

c	
Operator Type	
Code	Description
A	Flush
B	Extended

d	
Illumination Options	
Code	Description
Blank	Incandescent
L	LED <sup>(2)(3)</sup>

e	
Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(6)</sup>
Transformer	
16	120V AC
26	240V AC

f	
Color Insert	
Code	Color
Blank	No contacts
X	Packet of colored inserts <sup>(5)</sup>
A	Amber
B	Blue
C	Clear
G	Green
R	Red <sup>(7)</sup>

g	
Contact Blocks	
Standard	
Code	Description
Blank	No contacts
D1	1 N.O.
D2	1 N.C.
A	1 N.O. - 1 N.C.
A2	2 N.O.
A4	2 N.C.
A7	1 N.C.L.B. - 1 N.C.
B	2 N.O. - 2 N.C. <sup>(8)</sup>

h	
Contact Block Termination Type <sup>(4)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

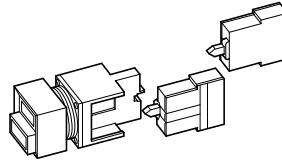
- (1) Gray bezels can be ordered separately.
- (2) LEDs are only available in red, green, amber, and white; lens color must match LED color.
- (3) White LED available in 24V AC/DC only.
- (4) LED only.
- (5) Packet of colored inserts, one of each color. Not available with LED option for illuminated devices.
- (6) Logic Reed and small screw contact blocks must be ordered separately.
- (7) Red flush-head push buttons are not suitable for applications that require extended head or other unguarded buttons capable of being operated quickly in emergencies, and they do not comply with applicable codes or standards.
- (8) Only available with full voltage illumination option and standard stab terminations.

# Dual Operator, Non-illuminated – 800MB



Dual Operator Black Bezel  
Cat. No. 800MB-DB16B

800    MB    -    DB16    B    \_\_\_\_\_  
          a                b                c                d                e



a	
Bezel Color <sup>(1)</sup> <sup>(2)</sup>	
Code	Color
MB	Black

b	
Operator Type	
Code	Description
DB16	Dual push button unit: Upper – Flush green Lower – Extended red

c	
Contact Blocks	
Standard	
Code	Description
Blank	No contacts
B	2 N.O. - 2 N.C.

d	
Contact Block Termination Type <sup>(3)</sup>	
Code	Description
Blank	Stab terminals
K	Large screw

e	
Legend Options	
Code	Description
Blank	Upper – Blank Lower – Blank
50	Upper – ON Lower – OFF
64	Upper – START Lower – STOP

(1) Gray bezels must be ordered separately.  
 (2) Must use Bulletin 800MS color inserts and legend plates. Type 13 oiltight, square traditional.  
 (3) Logic Reed and small screw contact blocks must be ordered separately.

# Pilot Light Units – 800MB

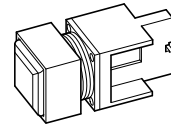


Pilot Light  
Cat. No. 800MB-CQ24RS



Push-to-test Pilot Light  
Cat. No. 800MB-CPT16G

800    MB    -    CP    L    24    R  
           a            b            c            d            e            f



a	
Bezel Color <sup>(1)</sup>	
Code	Color
MB	Black

b	
Power Module Type	
Code	Description
CP	Transformer
CQ	Full voltage

c	
Illumination Options	
Code	Description
Blank	Incandescent
L	LED <sup>(2)</sup>
T	Push-to-test
TL	Push-to-test with LED

d	
Voltage	
Full Voltage	
Code	Description
12	12V AC/DC
24	24V AC/DC
10	120V AC <sup>(3)</sup>
Transformer	
16	120V AC
26	240V AC

e	
Lens Color	
Code	Color
X	Packet of colored inserts <sup>(5)</sup>
A	Amber
B	Blue
C	Clear/white
G	Green
R	Red

f	
Termination Type <sup>(4)</sup>	
Pilot Lights	
Code	Description
Blank	Stab terminals
Push-to-test Pilot Lights	
Blank	Stab terminals
K	Large screw <sup>(6)</sup>

- (1) Gray bezel can be ordered separately.
- (2) LEDs are only available in red, green, amber, and white; lens color must match LED color.
- (3) LED only.
- (4) Small screw contact blocks must be ordered separately.
- (5) Packet of colored inserts, one of each color. Not available with LED illumination option.
- (6) Only available with full voltage power module and standard stab terminations.

## Accessories – Bulletin 800MB/MR

### Contact Blocks



Cat. No. 800M-XA



Cat. No. 800M-XAS



Cat. No. 800M-XAK



Cat. No. 800M-XAR

Contact Arrangement	Standard Blocks			Logic Reed Blocks <sup>(1)</sup>
	Quick Connect Terminals	Small Screw Terminals with Pressure Plates	Large Screw Terminals with Pressure Plates	Quick Connect Terminals
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1 N.O.	800M-XD1	800M-XD1S	800M-XD1K	800M-XD1R
1 N.C.	800M-XD2	800M-XD2S	800M-XD2K	800M-XD2R
1 N.O. - 1 N.C.	800M-XA	800M-XAS	800M-XAK	800M-XAR
2 N.O.	800M-XA2	800M-XA2S	800M-XA2K	800M-XA2R
2 N.C.	800M-XA4	800M-XA4S	800M-XA4K	800M-XA4R
1 N.O.E.M. - 1 N.C.L.B.	800M-XA3	800M-XA3S	800M-XA3K	–
1 N.C.L.B. - 1 N.C.	800M-XA7	800M-XA7S	800M-XA7K	–

(1) Screw terminals with pressure plates are not available.

**IMPORTANT** For contact block rating information, see [Standard Contact Ratings on page 118](#).

### Color Caps

Table 57 - Non-illuminated Devices



Color	Flush Head Push Buttons	Extended Head Push Buttons	Mushroom Buttons	Push-Pull Units	Twist or Pull Release Caps
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Green	800MR-N41	800MR-N21	800MR-N56G	800MR-N160B	800MR-N30B
Black	800MR-N42	800MR-N22	800MR-N56B	800MR-N160H	800MR-N30H
Orange	800MR-N43	800MR-N23	800MR-N56O	800MR-N160F	800MR-N30F
Gray	800MR-N44	800MR-N24	800MR-N56GR	800MR-N160G	–
White	800MR-N45	800MR-N25	800MR-N56W	800MR-N160J	–
Red	800MR-N46	800MR-N26	800MR-N56R	800MR-N160A	800MR-N30A
Blue	800MR-N47	800MR-N27	800MR-N56BL	800MR-N160C	800MR-N30C
Yellow	800MR-N49	800MR-N29	800MR-N56Y	800MR-N160E	800MR-N30E


Table 58 - Illuminated Devices

Color	Pilot Lights	Push-to-test Pilots and Illuminated Push Buttons	Illuminated Push-Pull Units	Illuminated Mushroom Buttons	Illuminated Twist or Pull Release Caps
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Red	800MR-N1R	800MR-N2R	800MR-N159R	800MR-N156R	800MR-N20R
Green	800MR-N1G	800MR-N2G	800MR-N159G	–	800MR-N20G
Amber	800MR-N1A	800MR-N2A	800MR-N159A	800MR-N156A	800MR-N20A
Blue	800MR-N1B	800MR-N2B	800MR-N159B	800MR-N156B	800MR-N20B
White	800MR-N1W	800MR-N2W	800MR-N159W	800MR-N156W	–
Clear	800MR-N1C	800MR-N2C	800MR-N159C	800MR-N156C	800MR-N20C



## Replacement Selector Switch Knobs

Color	Selector Switch Knobs, Non-Illuminated		Color	Selector Switch Knobs, Illuminated	
	Standard Knob	Knob Lever		Standard Knob	Knob Lever
	Cat. No.	Cat. No.		Cat. No.	Cat. No.
Gray	800M-NG	800M-NT	Red	800M-LA	800M-LL
Red	800M-NA	800M-NL	Amber	800M-LD	800M-LP
Green	800M-NB	800M-NM	Clear	800M-LY	800M-LZ
Blue	800M-NC	800M-NN	Green	800M-LB	800M-LM
Yellow	800M-NE	800M-NR			
Orange	800M-NF	800M-NS			
Black	800M-NH	800M-NK			
White	800M-NJ	800M-NV			










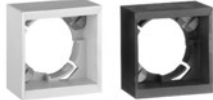


## Color Chip Kits – Bulletin 800MB

	Description	Type of Unit	Color	Cat. No.
 <p>Cat. No. 800MS-N10</p>	<p><b>Color Chip Kits</b>            These kits are available for replacement on backlit style devices. A packet of color chips that contains one of each color is included in each kit.</p>	Full-face illuminated	Amber	800MS-N10A
			Blue	800MS-N10B
			Clear	800MS-N10C
			Green	800MS-N10G
			Red	800MS-N10R
		Non-illuminated	Blue	800MS-N12B
			Gray	800MS-N12GR
			Green	800MS-N12G
			Orange	800MS-N12O
			Red	800MS-N12R
			White	800MS-N12W
			Yellow	800MS-N12Y

## Boots

	Description	Cat. No.
	<p><b>Insulation Boot</b>            When properly combined with a Bulletin 800MR unit, this device meets CSA grounding requirements.</p>	800M-N18
	<b>Description</b>	<b>Color</b>
 <p>Cat. No. 800MR-N9</p>	<p><b>Rubber Boot</b>            These accessories are used as dust covers. They can be added to flush and extended head push button units (illuminated and non-illuminated) to help protect against foreign materials reaching the opening between the button and the mounting ring.</p>	Black
		Red
		Green
		Blue
		Yellow
		Clear



## Miscellaneous

	Description			Cat. No.
	Extended Mounting Ring This mounting ring helps protect against accidental push button operation.			800MR-N4
	Padlocking Cover <sup>(1)</sup> Stainless steel mounting bracket with clear plastic cover. Guards against unauthorized operation. Used with round design push buttons and selector switches (not for use with wing lever). Also available for 2-position push-pull units (button must be in the depressed position when the cover is closed).			800MR-N6
	Locking Ring Wrench This device is used to tighten and loosen mounting rings properly in the 800MR family.			800MR-N3
	Hole Closing Plug Wherever an enclosure or flush plate with more than the required number of openings is used, this neat-appearing plug can be supplied to close the unused openings.			800M-N1
	Lamp Remover This tool can be used to remove and install wedge-based lamps in illuminated selector switches.			800M-N5
	Connectors Used with wire sizes AWG 18...22. The connectors come in packages of 100 pieces.			800M-NT2 <sup>(2)</sup>
	Guard for Illuminated Push Buttons This device is used to help prevent accidental operation of illuminated push buttons.			800MR-N93
	Mounting Ring This device is a retaining ring that is used to keep an operator in the panel when removing the guard ring to service the light bulb.			40167-287-02
	Lens Remover This device makes it easier to remove the lens.			800MS-N9
 Cat. No. 800MS-N16 (Gray) Cat. No. 800MB-N16 (Black)	Description These bezels fit square traditional and backlit styles.	Style	Color	Cat. No.
			Gray	800MS-N16
 Cat. No. 800MS-N17	Description These bezels fit square traditional and backlit styles.	Flush button backlit	Gray	800MS-N17
			Black	800MB-N17
		Extended button backlit	Gray	800MS-N18
			Black	800MB-N18
	Description		Type	Cat. No.
	Legend Insert Do-It-Yourself Kits These kits contain material necessary to create transparent backlit legend inserts		Legend marking start package	800MS-N13

(1) Padlock not included.

(2) Must be ordered in multiples of 100.

## Replacement Lamps

Lamp	Type	Lamp Voltage	ANSI Number	Cat. No.
Incandescent 	Full Voltage and Transformer	6.3V AC	86	800M-N15
	Full Voltage	12V AC/DC	73	800M-N16
		24V AC/DC	85	800M-N17
	Dual-input Transformer	6.3V AC	755/1866	800T-N65
Standard LED 	Full Voltage	6.3V AC/DC	–	800T-N60x <sup>(1)</sup>
		14V AC/DC	–	800T-N61x <sup>(1)</sup>
		28V AC/DC	–	800T-N62x <sup>(2)</sup>
		120V AC	–	800T-N64x <sup>(1)</sup>

(1) To complete the cat. no. replace the x with the first letter of the desired color: A (amber), G (green), R (red), W (white), or B (blue).

(2) To complete the cat. no. replace the x with the first letter of the desired color: A (amber), G (green), R (red), or W (white).

**IMPORTANT** All illuminated devices, except dual-input transformer units, use T 1-3/4 wedge base units. Existing Bulletin 800M devices can have incandescent lamps replaced with shock and vibration resistant LEDs. Existing ANSI number 86, 73, or 85 lamps can be replaced by LEDs.

## Legend Plates – 800MB/MR

### Bulletin 800MR Legend Plates



Standard Size Blank Legend Plate  
 Gray (Cat. No. 800MR-W00)  
 Red (Cat. No. 800MR-W600)



Standard Size Blank Legend Plate  
 Gray (Cat. No. 800MR-W00)  
 Red (Cat. No. 800MR-W600)

**Table 59 - Push Buttons/Pilot Lights**

Marking	Cat. No.
CLOSE	800MR-W01
DOWN	800MR-W02
EMERG. STOP (Red)	800MR-W624
FAST	800MR-W03
FORWARD	800MR-W23
HIGH	800MR-W04
IN	800MR-W06
INCH	800MR-W07
JOG	800MR-W08
LOW	800MR-W05

Marking	Cat. No.
LOWER	800MR-W11
OFF	800MR-W09
ON	800MR-W10
OPEN	800MR-W13
OUT	800MR-W12
PUSH-TO-TEST	800MR-W29
RAISE	800MR-W14
RESET	800MR-W15
REV	800MR-W16
RUN	800MR-W17

Marking	Cat. No.
SLOW	800MR-W18
START	800MR-W19
STOP (Red)	800MR-W620
TEST	800MR-W21
UP	800MR-W22
1ST SPEED	800MR-W25
2ND SPEED	800MR-W26
3RD SPEED	800MR-W27
4TH SPEED	800MR-W28
–	–

**Table 60 - Selector Switches**

Marking	Cat. No.
OPEN-CLOSE	800MR-W57
RAISE-LOWER	800MR-W58
RUN-JOG	800MR-W59
SAFE-RUN	800MR-W60
SLOW-FAST	800MR-W61
SLOW-OFF-START	800MR-W75
START-JOG	800MR-W62
START-STOP	800MR-W63

Marking	Cat. No.
STOP-START	800MR-W64
SUM-WINT	800MR-W65
UP-DOWN	800MR-W66
1-2-3-4	800MR-W80
AUTO-OFF-HAND	800MR-W79
FOR-OFF-REV	800MR-W77
FOR-REV	800MR-W51
HAND-AUTO	800MR-W52

Marking	Cat. No.
HAND-OFF-AUTO	800MR-W78
HIGH-LOW	800MR-W53
JOG-REV	800MR-W54
JOG-RUN	800MR-W55
JOG-STOP-RUN	800MR-W76
LEFT-RIGHT	800MR-W56
OFF-ON	800MR-W50
–	–

**Table 61 - Blank Legend Plates**

Size – Color	Cat. No.
Standard – gray	800MR-W00
Large – gray	800MR-W100
Standard – red	800MR-W600
Large – red	800MR-W6100

**Table 62 - Custom Legend Plates**

Number of Lines and Characters	Cat. No.
1 line, 12 characters	800MR-W00E plus custom text
2 lines, 12 characters	800MR-W100E plus custom text
1 line, 12 characters	800MR-W600E plus custom text
2 lines, 12 characters	800MR-W6100E plus custom text

### Extra Large Legend Plates

**IMPORTANT** An adapter ring is available for Bulletin 800MR push buttons when used with Bulletin 800T legend plates. Order Cat. No. 800MR-N50. See [Legend Plates on page 122](#) for dimension requirements.



Format	Cat. No.
Large size with adapter ring (blank)	800MR-W645
Round with adapter ring (blank)	800MR-W646
Pre-printed includes adapter ring (Cat. No. 800MR-N50) Push to stop Twist or pull release	800MR-W647

Format	Cat. No.
For Push-Pull only Push stop Pull start	800MR-W130
Adapter Ring <sup>(1)</sup> Used with Bulletin 800T legend plates	800MR-N50
–	–

(1) To use the Bulletin 800T legend plates with Bulletin 800MR devices, use adapter ring (Cat. No. 800MR-N50).

### Bulletin 800MB Special Legend Inserts

Special legend inserts are available. To order, specify catalog number 800MS-WC00E and marking required. A maximum of nine characters per line:

- One or two lines 0.140 in. high characters
- Three or four lines 0.110 in. high characters

### Bulletin 800MB Backlit Legends

[Table 63](#) lists standard legend markings that are available. To order legend insert only, add the suffix of the legend to catalog number 800MS-WC. Example: catalog number 800MS-WC03 would be a FAST legend insert only.

**Table 63 - Standard Legend Markings**

Marking	Suffix	Marking	Suffix	Marking	Suffix	Marking	Suffix
CLOSE	01	LOW	05	RESET	15	UP	22
DOWN	02	LOWER	11	REV	16	1ST SPEED	25
FAST	03	OFF	09	RUN	17	2ND SPEED	26
FORWARD	23	ON	10	SLOW	18	3RD SPEED	27
HIGH	04	OPEN	13	START	19	4TH SPEED	28
IN	06	OUT	12	STOP	20	0	40
INCH	07	PUSH-TO-TEST	29	EMERG STOP	24	1	41
JOG	08	RAISE	14	TEST	21	–	–

# Specifications

Table 64 - 800MB/MR <sup>(1)</sup>

Electrical Ratings		
Contact Ratings	See <a href="#">Standard Contact Ratings</a> and <a href="#">Logic Reed Contact Ratings on page 118</a>	
Dielectric Strength	1600V for 1 minute 1300V for 1 minute (Logic Reed)	
Electrical Design Lifecycles	750,000 at maximum rated load 200,000 at maximum rated load (Logic Reed)	
Mechanical Ratings		
Vibration	10...2000 Hz 1.52 mm displacement (peak-to-peak) max/10 G max (except Logic Reed)	
Shock	1/2 cycle sine-wave for 11 milliseconds ≥ 25 G (contact fragility) and no damage at 100 G	
Degree of Protection	Type 13; IEC I44 IP65 oiltight	
Mechanical Design Lifecycles, Min	Push Buttons	1,000,000
	Potentiometers	100,000
	All other devices	200,000
Contact Operation	Contact blocks with Bifurcated spanner: Slow make and break, simple break. Logic Reed Contact Blocks: Snap action	
Typical Operating Forces	Operators without contact blocks	10.8 N (2.45 lb)
	Push-Pull Units	35.3 N (8 lb) push to in position 17.7 N (4 lb) maximum pull to out position
	Contact Blocks	Standard – 6.7 N (1.5 lb) Logic Reed – 2.6 N (0.616 lb)
Environment		
Temperature Range	Operating	0...55 °C (32...131 °F)
	Storage	-40...+85 °C (-40...+185 °F)
<b>Note:</b> Operating temperatures at 0 °C (32 °F) are based on the absence of freezing moisture and liquids.		
Humidity	50% at 40 °C (104 °F)	
Panel Thickness Requirements	1.6...6.4 mm (1/16...1/4 in.)	

(1) Performance Data – see Important table on [page 4](#).

## Certifications

- UL Listed – File: E14840, E10314
- CSA Certified: LR1234, LRI1924
- Guide: NKCR, NOIV
- IEC Compliance, IEC 529

## Standard Contact Ratings

(IEC 337-1) (NEMA ICS 2-125) Max continuous current  $I_{th}$  10 A. 800M units have control circuit ratings with 800M contact blocks as follows:

Maximum Operational Volts $U_e$	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts $U_e$	Make	Break
AC 300	AC-II	A300	120...300	7200VA	720VA
			72...120	60VA	720VA
			24...72 <sup>(1)</sup>	60 A	10 A

(1) For applications below 24V and 24 mA, Logic Reed contacts are recommended.

## Logic Reed Contact Ratings

Max: 150V AC, 0.15 A, 8VA and 30V DC, 0.06 A, 1.8VA. Should only be used with resistive loads.

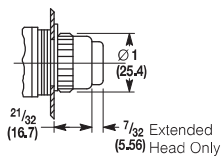
## Wire Capacity

Contact Block	Wire Size
Stab termination contact blocks	Accepts two 2.79 x 0.81 mm (0.110 x 0.032 in.) push-on connectors or one 6.35 x 0.81 mm (0.250 x 0.032 in.) push-on connector.
Small screw contact blocks	Accepts one #14 or two #16 AWG solid or stranded wires.
Large screw-termination contact blocks	Accepts two #12 AWG solid or stranded wires.

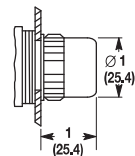
## Approximate Dimensions – 800MB/MR

Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

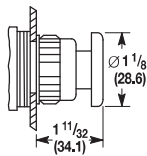
### Bulletin 800MR Extension in Front of Panel



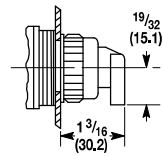
Round Push Button  
Flush, Extended, and  
Illuminated Extended



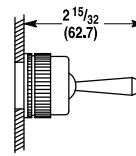
Round Push Button  
Illuminated Flush



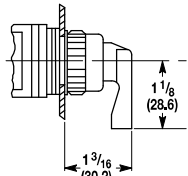
Round Push Button  
Mushroom



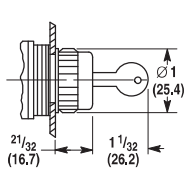
Round Selector Switch  
and Potentiometer  
and Standard Knob



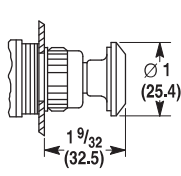
Panel Wobble  
Stick Unit



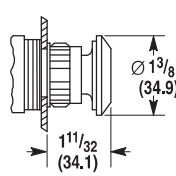
Round Selector Switch  
and Potentiometer  
and Wing Lever



Round Cylinder Lock  
Selector Switch



Round Push-pull



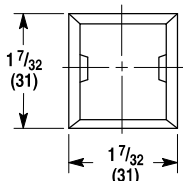
Twist or Pull  
Release Units

### Bulletin 800MB Front View of Square Units

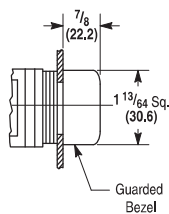
Dimensions in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.



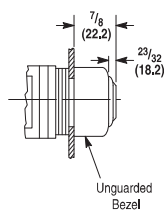
**ATTENTION:** To avoid possible excessive heat, clusters of nine or more continuously illuminated units that are mounted in a small enclosure should be spaced at 1.5 in. (38.1 mm) minimum centers in one direction.



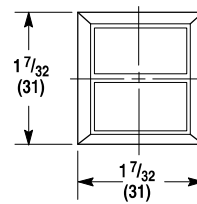
Unit without Insert  
and Backlit Unit



Square Backlit  
with Guarded Bezel

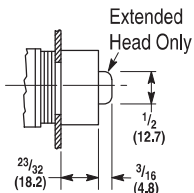


Square Backlit  
with Unguarded Bezel

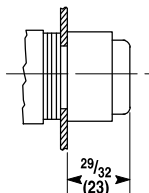


Dual Operator Unit

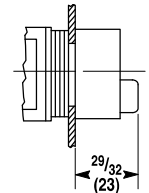
### Bulletin 800MB Extension in Front of Panel



Square Push Button  
Flush and Extended



Square Push Button  
Large Extended



Square Push Button  
Dual Operator