22.5 mm Push Buttons
Product Selection

3-Position Selector Switch Operators, Non-Illuminated

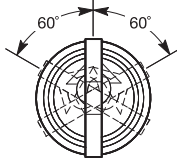*Standard Knob*
Cat. No. 800FP-SM32

Knob Lever
Cat. No. 800FM-HM32

Switching Angle

Target Table and Operator Position (60° Switching Angle)					
Contact Type♣	Position on Mounting Latch				
N.O.	Left	X	O	O
	Right	O	O	X
	Center	X	O	X
	Center CL‡	X	O	O
	Center CR‡	O	O	X
N.C.	Left	O	X	X
	Right	X	X	O
	Center	O	X	O
	Center CL‡	O	X	X
	Center CR‡	X	X	O

Note: X = Closed/O = Open

♣ Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

Color	Operator Type	Pkg. Quantity	Standard Knob		Knob Lever	
			Plastic	Metal	Plastic	Metal
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
Black with White Insert	(maintained)	1	**800FP-SM32**	**800FM-SM32**	**800FP-HM32**	**800FM-HM32**
	(spring return both)		**800FP-SB32**	**800FM-SB32**	**800FP-HB32**	**800FM-HB32**

800F **P** – **S** **M3** **2** ____ ____ ____
  _a_   _b_   _c_   _d_   _e_   _f_

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/4X/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Code	Description
S	Standard knob
H	Knob lever✶

c

Operator Function	
Code	Type
M3	Maintained
L3	Spring return from left
R3	Spring return from right
B3	Spring return from left and right

d

Knob/Insert Color		
Code	Knob Color	Insert Color
2	Black	White

e

Orientation	
Code	Description
Blank	Standard
N	90° offset❋

f

Operation	
Code	Description
Blank	Standard
CL	Center left‡
CR	Center right‡

✶ 30 mm hole spacing will not work if knob lever is used. See page 10-125 for recommended operator panel spacing.
❋ For use in vertical mount enclosures.
‡ The center contact block can have the same target output as the left or right contact block, by specifying center left (CL) or center right (CR) option.

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Allen-Bradley

3-Position Selector Switch Operators, Illuminated ‡

Standard Knob
Cat. No. 800FP-LSM37

Switching Angle
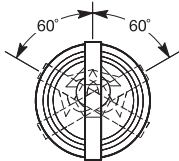
Target Table and Operator Position (60° Switching Angle)					
Contact Type♣	Position on Mounting Latch	◐	◓	◑	
N.O.	Left	X	O	O
	Right	O	O	X
N.C.	Left	O	X	X
	Right	X	X	O

Note: X = Closed/O = Open

♣ Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

Operator Type		Green		Red		Yellow	
◐ ◓ ◑		Plastic	Metal	Plastic	Metal	Plastic	Metal
	Pkg. Quantity	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
▽		**800FP-LSM33**	**800FM-LSM33**	**800FP-LSM34**	**800FM-LSM34**	**800FP-LSM35**	**800FM-LSM35**
▽▷	1	**800FP-LSR33**	**800FM-LSR33**	**800FP-LSR34**	800FM-LSR34	**800FP-LSR35**	**800FM-LSR35**
◁▽		**800FP-LSL33**	**800FM-LSL33**	**800FP-LSL34**	800FM-LSL34	**800FP-LSL35**	800FM-LSL35
◁▽▷		**800FP-LSB33**	**800FM-LSB33**	**800FP-LSB34**	**800FM-LSB34**	**800FP-LSB35**	**800FM-LSB35**

$$\text{800F} \quad \underset{a}{\text{P}} \text{ – } \underset{b}{\text{LS}} \quad \underset{c}{\text{M3}} \quad \underset{d}{\text{3}} \quad \underset{e}{\underline{\quad}}$$

a

Operator Construction	
Code	Description✳
P	Round plastic operator (IP66, Type 4/4X/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Code	Description
LS	Standard knob
LH	Knob lever§

c

Operator Function		
Code	Type	
M3	Maintained	▽
L3	Spring return from left	◁▽
R3	Spring return from right	▽▷
B3	Spring return from left and right	◁▽▷

d

Knob/Insert Color		
Code	Knob Color	Insert Color
0	Amber➤	White
3	Green	White
4	Red	White
5	Yellow➤	Black
6	Blue➤	White
7	Clear	Black

e

Orientation	
Code	Description
Blank	Standard
N	90° offset❊

✳ LED module required for illumination, can not use incandescent module.
❊ For use in vertical mount 800F enclosures.
‡ Crevices may exist on product that may be unsuitable for certain applications. Please consult your local Rockwell Automation sales office or Allen-Bradley distributor.
§ Only available in clear.
➤ Use of a white LED is recommended.

10

Allen-Bradley

4-Position Selector Switch Operators, Non-Illuminated

Standard Knob
Cat. No. 800FP-SM42

Target Table and Operator Position∗						
Contact Type§	Position on Mounting Latch	↙	↖	↗	↘
N.O.	Left	O	O	X	O
	Right	X	O	O	O
	Center	X	O	X	O
	Center CL	O	O	X	O
	Center CR	X	O	O	O
N.C.E.B.	Left	O	O	O	X
	Right	O	X	O	O
	Center CL	O	O	O	X
	Center CR	O	X	O	O
N.C.L.B.	Left	X	X	O	X
	Right	O	X	X	X
	Center	O	X	O	X
	Center CL	X	X	O	X
	Center CR	O	X	X	X

Note: X = Closed/O = Open

§ Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

	Standard Knob — Maintained		
	Plastic	Metal	
Color	Cat. No.	Cat. No.	Pkg. Quantity
Black with White Insert	**800FP-SM42**	**800FM-SM42**	1

800F P – S M4 2 ___ ___
       a   b   c   d   e   f

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/4X/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Code	Description
S	Standard knob
H	Knob lever

c

Operator Function	
Code	Type
M4	Maintained (45° switching angle)

d

Knob/Insert Color		
Code	Knob Color	Insert Color
2	Black	White

e

Orientation	
Code	Description
Blank	Standard
N	90° offset❈

f

Operation	
Code	Description
Blank	Standard
CL	Center left‡
CR	Center right‡

∗ Must use N.O., N.C.E.B., or N.C.L.B. contact blocks only. Cannot use N.C. or N.O.E.M. contact blocks with 4-position selector switch.
❈ For use in vertical mount enclosures.
‡ The center contact block can have the same target output as the left or right contact block, by specifying center left (CL) or center right (CR) option.

10

Allen-Bradley

2-Position Key-Operated Selector Switches, Non-Illuminated

Key Selector Switch
Cat. No. 800FP-KM21R

Switching Angle

60°

Contact Type►	Target Table and Operator Position✱	
N.O.	O	X
N.C.	X	O

Note: X = Closed/O = Open
► Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

Key Removal Position	Operator Type	Pkg. Quantity	Key Selector Switch Operators	
			Plastic	Metal
			Cat. No.	Cat. No.
Left		1	**800FP-KM21**	**800FM-KM21**
Both			**800FP-KM23**	**800FM-KM23**

✱ Target table for spring return from left is reversed from what is shown in the table.

800F ___ – KM2 ___ ___
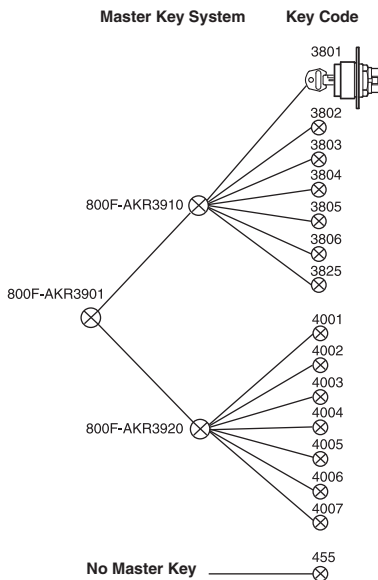   a   b   c   d

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Code	Type
KM2	Maintained (60° switching angle)
KL2	Spring return from left (60° switching angle)
KR2	Spring return from right (60° switching angle)

c

Key Removal Position❄	
Code	Position
1	Left
2	Right
3	Both

Master Key System **Key Code**

3801
3802
3803
3804
800F-AKR3910 — 3805
3806
3825

800F-AKR3901

4001
4002
4003
4004
800F-AKR3920 — 4005
4006
4007

No Master Key —— 455

d

Ronis Key Lock‡§♣	
Code	Key No.
Blank	3825 (Standard)
R	455
01R	3801
02R	3802
03R	3803
04R	3804
05R	3805
06R	3806
27R	4001
28R	4002
29R	4003
30R	4004
31R	4005
32R	4006
33R	4007

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❄ Key removal in maintained positions only.
‡ Keyed operators are IP66, Type 4/13.
§ Not intended for high security applications. Interoperability is possible with certain key/cylinder lock combinations. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for interoperability information.
♣ For replacement Ronis keys, see Accessories, page 10-111.

22.5 mm Push Buttons
Product Selection

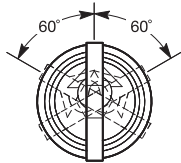## 3-Position Key-Operated Selector Switches, Non-Illuminated

Key-Operated Selector Switch
Cat. No. 800FP-KM31R

Key-Operated Selector Switch
Cat. No. 800FM-KM31R

Switching Angle

60° 60°

Target Table and Operator Position

Contact Type ➤	Position on Mounting Latch	⬉	⬆	⬈
N.O.	Left	X	O	O
	Right	O	O	X
	Center	X	O	X
N.C.	Left	O	X	X
	Right	X	X	O
	Center	O	X	O

Note: X = Closed/O = Open

➤ Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

Key Removal Position	Operator Position ⬉ ⬆ ⬈	Pkg. Quantity	Key Selector Switch Operators	
			Plastic	Metal
			Cat. No.	Cat. No.
Left			**800FP-KM31**	**800FM-KM31**
All		1	**800FP-KM33**	**800FM-KM33**
Center			**800FP-KM34**	**800FM-KM34**
Center			**800FP-KB34**	**800FM-KB34**

800F M –KM3 3 ____
      a   b   c d

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Code	Description
KM3	Maintained
KR3	Spring return from right
KL3	Spring return from left
KB3	Spring return from both

c

Key Removal Position *	
Code	Type
1	Left
3	All
4	Center
5	Left/center
7 ♣	Center/right

d

See page 10-83 for optional key codes ❋‡§

∗ Key removal in maintained positions only.
❋ Keyed operators are IP66, Type 4/13.
‡ Not intended for high security applications. Interoperability is possible with certain key/cylinder lock combinations. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for interoperability information.
§ For replacement Ronis keys, see Accessories, page 10-111.
♣ Key removal position only valid with operator types 800F_-KM3 and 800F_-KL3.

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Allen-Bradley

10

Emergency Stop Operators*
Non-Illuminated Twist-to-Release, Push-Pull

60 mm Non-Illuminated Twist-to-Release
Cat. No. 800FP-MT64

40 mm Non-Illuminated Push-Pull
Cat. No. 800FP-MP44

Color	Size	Pkg. Quantity	Twist-to-Release (Trigger Action)		Push-Pull (Trigger Action)	
			Plastic	Metal	Plastic	Metal
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
	30		**800FP-MT34**	**800FM-MT34**	—	—
Red	40	1	**800FP-MT44**	**800FM-MT44**	**800FP-MP44**	**800FM-MP44**
	60		**800FP-MT64**	**800FM-MT64**	—	—

Illuminated — Twist-to-Release, Push-Pull‡

40 mm Illuminated Twist-to-Release
Cat. No. 800FP-LMT44

40 mm Mushroom Push/Pull
Cat. No. 800FM-LMP44

Color	Size	Pkg. Quantity	Twist-to-Release (Trigger Action)		Push-Pull (Trigger Action)	
			Plastic	Metal	Plastic	Metal
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
	30		—	—	**800FP-LMP34**	**800FM-LMP34**
Red	40	1	**800FP-LMT44**	**800FM-LMT44**	**800FP-LMP44**	**800FM-LMP44**
	60		**800FP-LMT64**	**800FM-LMT64**	**800FP-LMP64**	**800FM-LMP64**

Key Release Mushroom Operator

40 mm Non-Illuminated Key Release
Cat. No. 800FP-MK44

Color	Size	Pkg. Quantity	Ronis Key Lock (Trigger Action)※	
			Plastic	Metal
			Cat. No.	Cat. No.
Red	40 mm	1	**800FP-MK44**	**800FM-MK44**

* All emergency stop operators are EN ISO 13850 compliant with standard NC, NCLB, or self-monitoring contact blocks.
‡ LED module required for illumination, can not use incandescent module.
※ For key options, see page 10-88.

10

2-Position Push-Pull Operators, Non-Illuminated — Twist-to-Release (Trigger Action), Push-Pull (Trigger Action)∗⌘

40 mm Trigger Action
Twist-to-Release Mushroom
Cat. No. 800FP-MT44

40 mm Trigger Action
Push-Pull Mushroom
Cat. No. 800FP-MP44

90 mm Half-Dome
Cat. No. 800FP-MP94

Color	Pkg. Quantity	40 mm Mushroom (Trigger Action) Twist-to-Release		40 mm Mushroom (Trigger Action) Push-Pull	
		Plastic	Metal	Plastic	Metal
		Cat. No.	Cat. No.	Cat. No.	Cat. No.
Red	1	**800FP-MT44**	**800FM-MT44**	**800FP-MP44**	**800FM-MP44**

800F   P   – MT4   4   ____
      a   *b*   *c*   *d*

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/4X/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Push, Twist-to-Release➤	
Code	Type
MT3	30 mm color cap
MT4	40 mm color cap
MT6	60 mm color cap
Push-Pull✦	
Code	Type
MP4	40 mm color cap
Half-Dome Push-Pull✦	
Code	Type
MP9	90 mm color cap❋

c

Color Cap	
Code	Color
2	Black
3	Green
4	Red
5	Yellow
6	Blue

d‡§♣

Engraving	
Code	Description
Blank	No engraving on cap
LE	EMO laser engraved
E	EMO printed

∗ All emergency stop operators are EN ISO 13850 compliant with standard NC, NCLB, or self-monitoring contact blocks.
⌘ E-Stop operators, latch, and contact block combinations have been third-party tested for B10d values. B10d values can be found in publication SAFETY-SR001_-EN-E.
➤ Only available with red color cap.
‡ For EMO guards, see page 10-109.
§ Only available on 40 mm color cap.
♣ Only available on red, 40 mm push, twist-to-release operator type (MT44).
❋ Half-dome operators only available with black, red, and yellow color caps.
✦ Limit of four contact blocks max. for these devices.

2-Position Push-Pull Operators, Illuminated — Twist-to-Release (Trigger Action), Push-Pull (Trigger Action)∗❅✦

40 mm Illuminated Twist-to-Release
Cat. No. 800FP-LMT44

40 mm Mushroom Push/Pull
Cat. No. 800FM-LMP44

90 mm Half-Dome
Cat. No. 800FP-LMP94

Color	Pkg. Quantity	40 mm Mushroom (Trigger Action) Twist-to-Release		40 mm Mushroom (Trigger Action) Push-Pull	
		Plastic	Metal	Plastic	Metal
		Cat. No.	Cat. No.	Cat. No.	Cat. No.
Red	1	**800FP-LMT44**	**800FM-LMT44**	**800FP-LMP44**	**800FM-LMP44**

$$800F \underline{\quad P \quad} - LMP4 \underline{\quad 3 \quad}$$

a   b   c

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/4X/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Push, Twist-to-Release‡§	
Code	Type
LMT4	40 mm color cap
LMT6	60 mm color cap
Push-Pull❖	
Code	Type
LMP3	30 mm color cap
LMP4	40 mm color cap
LMP6	60 mm color cap
Half-Dome Push-Pull❖	
Code	Type
LMP9	90 mm color cap⌘

c

Lens Cap Color	
Code	Color
3	Green
4	Red
5	Yellow➤
6	Blue♣

∗ LED module required for illumination, can not use incandescent module.
❅ All emergency stop operators are EN ISO 13850 compliant with standard NC, NCLB, or self-monitoring contact blocks.
✦ E-Stop operators, latch, and contact block combinations have been third-party tested for B10d values. B10d values can be found in publication SAFETY-SR001_-EN-E.
‡ Only available with red color cap.
§ 60 mm version has black arrows; 30 and 40 mm versions have white arrows.
➤ Use of a white LED is recommended.
♣ Only available with 40 mm Push-Pull color cap (**LMP4** from Table b).
⌘ Half-dome operators only available with red and yellow lens cap colors.
❖ Limit of four contact blocks max. for these devices.

10

2-Position Non-Illuminated Operators — Mushroom, Key Release (Trigger Action)∗♣

40 mm Key Release Mushroom
Cat. No. 800FP-MK44

Color	Pkg. Quantity	2-Position (Trigger Action) 40 mm Mushroom Key Release	
		Plastic	Metal
		Cat. No.	Cat. No.
Red	1	**800FP-MK44**	**800FM-MK44**

Note: For replacement Ronis keys, see Accessories, page 10-111. Key release mushroom operators use key no. 3825.

800F ___ P ___ – MK4 ___ 4 ___ ____
　　　　 a 　　　 *b* 　 *c* 　 *d*

a

Operator Construction	
Code	Description
P	Round plastic operator (IP66, Type 4/13)
M	Round metal operator (IP66, Type 4/13)

b

Operator Type	
Key Release Mushroom	
Code	Type
MK4	40 mm

c

Lens Cap Color	
Code	Color
4	Red

d

Ronis Key Lock❋‡§	
Code	Key No.
Blank	3825 (Standard)
R	455
01R	3801
02R	3802
03R	3803
04R	3804
05R	3805
06R	3806
27R	4001
28R	4002
29R	4003
30R	4004
31R	4005
32R	4006
33R	4007

∗ All emergency stop operators are EN ISO 13850 compliant with standard NC, NCLB, or self-monitoring contact blocks.
♣ E-Stop operators, latch, and contact block combinations have been third-party tested for B10d values. B10d values can be found in publication SAFETY-SR001_-EN-E.
❋ Keyed operators are IP66, Type 4/13.
‡ Not intended for high security applications. Interoperability is possible with certain key/cylinder lock combinations. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for interoperability information.
§ For replacement Ronis keys, see Accessories, page 10-111.

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3-Position Push-Pull Operators, Illuminated & Non-Illuminated — Mushroom♣

Illuminated 3-Position Push-Pull
Cat. No. 800FM-LMP44E3

Contact Type✦	Out	Center	In
N.O.	O	O	X
N.C.E.B.	X	O	O
N.C.L.B.	X	X	O

Target Table and Operator Position✱

Note: X = Closed/O = Open

✦ Contact selection is limited to the following options, consult your local Rockwell Automation sales office or Allen-Bradley distributor for other options.

Operator Function	Operator Type	Color	Pkg. Quantity	Cat. No.
Momentary Out, Maintained Center, Momentary In	Non-Illuminated	Black§	1	800FM-MM42E3
		Green		800FM-MM43E3
		Red➤		**800FM-MM44E3**
	Illuminated❋	Amber‡		**800FM-LMM40E3**
		Green		**800FM-LMM43E3**
		Red		**800FM-LMM44E3**
		Blue‡		800FM-LMM46E3
		Clear‡		800FM-LMM47E3
Momentary Out, Maintained Center, Maintained In	Non-Illuminated	Black§	1	800FM-MP42E3
		Green		800FM-MP43E3
		Red➤		**800FM-MP44E3**
	Illuminated❋	Amber‡		**800FM-LMP40E3**
		Green		**800FM-LMP43E3**
		Red		**800FM-LMP44E3**
		Blue‡		800FM-LMP46E3
		Clear‡		800FM-LMP47E3

800F M – L MM 4 4 E3
a b c d e f

a — Operator Construction
Code	Description
M	Round metal operator (IP66, Type 4/13)

b — Operator Type
Code	Description
Blank	Non-illuminated
L	Illuminated❋

c — Operator Function
Code	Description
MM	Momentary out, Maintained center, Momentary in
MP	Momentary out, Maintained center, Maintained in

d — Cap Size
Code	Description
4	40 mm plastic

e — Cap Color
Code	Description
0	Amber‡⌘
2	Black§
3	Green
4	Red
6	Blue‡⌘
7	Clear‡⌘

f — Positions
Code	Description
E3	3-position

10

♣ Sold as stand-alone operator only. Not available as a composite catalog number.
✱ Must use N.O., N.C.E.B., or N.C.L.B. contact blocks only. Cannot use N.C. or N.O.E.M. contact blocks with 3-position push-pull operators.
❋ LED module required for illumination. Cannot use incandescent module.
‡ Available in illuminated only.
⌘ Use of white LED is recommended.
§ Available in non-illuminated only.
➤ Replacement caps are available for this device. Order Cat. No. 800F-AMP4.

Momentary Push Button Operators, Non-Illuminated — Mushroom∗

40 mm Mushroom
Cat. No. 800FM-MM42

60 mm Mushroom
Cat. No. 800FP-MM63

90 mm Mushroom
Cat. No. 800FP-MM94

Color	Pkg. Quantity	40 mm Mushroom		60 mm Mushroom	
		Plastic	Metal	Plastic	Metal
		Cat. No.	Cat. No.	Cat. No.	Cat. No.
Black		**800FP-MM42**	**800FM-MM42**	**800FP-MM62**	**800FM-MM62**
Green		**800FP-MM43**	**800FM-MM43**	**800FP-MM63**	**800FM-MM63**
Red	1	**800FP-MM44**	**800FM-MM44**	**800FP-MM64**	**800FM-MM64**
Yellow		**800FP-MM45**	**800FM-MM45**	800FP-MM65	**800FM-MM65**
Blue		**800FP-MM46**	**800FM-MM46**	800FP-MM66	800FM-MM66

800F   P   – MM4   3
       a   *b*   *c*

a

Operator Construction	
Code	Description
P	Round plastic operator (IP65, Type 4/4X/13)
M	Round metal operator (IP65, Type 4/13)

b

Size and Operator Type	
Code	Type
MM4	40 mm momentary
MM6	60 mm momentary
MM9	90 mm momentary❋

c

Color Cap	
Code	Color
2	Black
3	Green
4	Red
5	Yellow
6	Blue

∗ Momentary mushroom operators are IP65 rated.
❋ Only available with black, red, and yellow cap colors.

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Momentary Push Button Operators, Illuminated — Mushroom∗

40 mm Mushroom
Cat. No. 800FP-LMM43

Color	Pkg. Quantity	40 mm Mushroom	
		Plastic	Metal
		Cat. No.	Cat. No.
Green		**800FP-LMM43**	**800FM-LMM43**
Red		**800FP-LMM44**	**800FM-LMM44**
Yellow	1	**800FP-LMM45**	**800FM-LMM45**
Blue		**800FP-LMM46**	**800FM-LMM46**
Clear		800FP-LMM47	800FM-LMM47

800F   P   – LMM4   3
        a   *b*   *c*

a

Operator Construction	
Code	Description
P	Round plastic operator (IP65, Type 4/4X/13)
M	Round metal operator (IP65, Type 4/13)

∗ Momentary mushroom operators are IP65 rated.
❋ When using LED for illumination, a white LED is recommended.

b

Size and Operator Type	
Code	Type
LMM4	40 mm momentary

c

Lens Cap Color	
Code	Color
3	Green
4	Red
5	Yellow❋
6	Blue❋
7	Clear❋

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22.5 mm Push Buttons
Product Selection

2-Function Momentary Multi-Operator, Non-Illuminated

2-Function Momentary Multi-Operator Non-Illuminated
Cat. No. 800FP-U2E4F3

Position A			Position C			Pkg. Quantity	Plastic
Color	Type	Text	Color	Type	Text		Cat. No.
Red	Extended	Blank	Green	Flush	Blank	1	**800FP-U2E4F3**
		O			I		**800FP-U2EFFE**
		STOP			START		**800FP-U2EBFA**

800F P – U2 E 4 F 3 (with button caps)
       a   *b*   *c*   *d*   *e*   *f*

800F P – U2 X (without button caps)
       a   *b*   *c*

Position C
Position A
∗

a
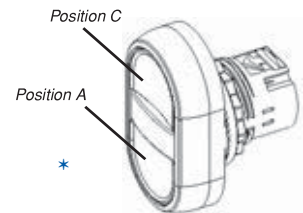
Operator Construction	
Code	Description
P	Plastic operator (IP66, Type 4/4X)
M	Metal operator (IP66, Type 4)

b

Operator Type	
Code	Description
U2	Two-function

c

Operator Type — Position A∗	
Code	Description
F	Flush
E	Extended
X	No caps (all positions)※

d

Operator Color Cap/Text — Position A‡	
Code	Description
1	White
2	Black
3	Green
4	Red
5	Yellow
6	Blue
A	Green with "Start" text
B	Red with "Stop" text
C	White with "Start" text
D	Black with "Stop" text
E	Green with "I" text
F	Red with "O" text
G	White with "I" text
H	Black with "O" text

f

Operator Color Cap/Text — Position C‡	
Code	Description
1	White
2	Black
3	Green
4	Red
5	Yellow
6	Blue
A	Green with "Start" text
B	Red with "Stop" text
C	White with "Start" text
D	Black with "Stop" text
E	Green with "I" text
F	Red with "O" text
G	White with "I" text
H	Black with "O" text

e

Operator Type — Position C∗	
Code	Description
F	Flush
E	Extended

∗ Position 1 of the latch (left position when viewed from the back) corresponds to position A of the operator. Position 2 of the latch (right position when viewed from the back) corresponds to position C of the operator.
※ For custom-engraved caps, order "no caps" option plus custom engraved caps on page 10-115.
‡ Valid color cap/legend text codes include:

	Text	
Color	Flush Caps	Extended Caps
White	START, I	—
Black	—	STOP, O
Green	START, I	—
Red	—	STOP, O

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www.ab.com/catalogs   Preferred availability cat. nos. are **bold**.
Publication A117-CA001A-EN-P

Allen-Bradley

Overview, Continued

3-Across x 2-Deep Back-of-Panel (6 Circuits Max.)

• Rugged snap-fit design for plastic or metal latch
• Stackable contact blocks
• Rotating collar for easy one-hand latch removal
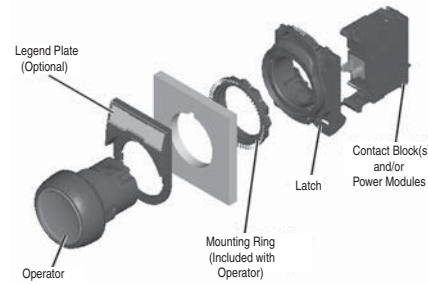• Color-coded contact block plungers for contact identification

Assembly Overview

Legend Plate (Optional)
Contact Block(s) and/or Power Modules
Latch
Mounting Ring (Included with Operator)
Operator

Plastic Latch with Contact Block

Metal Latch with Contact Block

Specifications∗

Front-of-Panel (Operators)

Mechanical Ratings			
Description		Plastic (Bulletin 800FP)	Metal (Bulletin 800FM)
Vibration (assembled to panel)		Tested at 10…2000 Hz, 1.52 mm displacement (peak-to-peak) max./10 G max. for 3 hr duration, no damage	
Shock		Tested at 1/2 cycle sine wave for 11 ms; no damage at 100 G	
Degree of protection❋		IP65/66 (Type 3/3R/4/4X/12/13)	IP65/66 (Type 3/3R/4/12/13)
Mechanical durability per EN 60947-5-1 (Annex C)	10 000 000 Cycles	Momentary push buttons, momentary mushroom	
	1 000 000 Cycles	Multi-function, selector switch, key selector switch, selector jog, SensEject™ key selector switch	
	500 000 Cycles	Non-illuminated push-pull E-stop‡	
	300 000 Cycles	Twist-to-release E-stop, illuminated push-pull E-stop‡, alternate action push buttons	
	100 000 Cycles	Potentiometer, toggle switch	
Operating forces (typical with one contact block)		Flush/extended = 5 N, E-stop = 36 N Mushroom = 9 N	
Operating torque (typical application with one contact block)		Selector switch = 0.25 N•m (2.2 lb•in)	
Mounting torque	Plastic	1.7 N•m (15 lb•in)	
	Metal	4.4 N•m (40 lb•in)	
Environmental			
Temperature range (operating)		-25…+70 °C (-13…+158 °F)§	
Temperature range (short term storage)		-40…+85 °C (-40…+185 °F)	
Humidity		50…95% RH from 25…60 °C (77…140 °F)	

∗ Performance Data — see page Important-3 of the Industrial Controls catalog.

❋ Momentary mushroom operators are IP65. Plastic keyed operators are IP66, Type 4/13; not Type 4X.

‡ Limit of four contact blocks max. for these devices.

§ Operating temperatures below 0 °C (32 °F) are based on the absence of freezing moisture and liquids, UL Recognized to 55 °C (131 °F) - Incandescent module max. 40 °C (104 °F).

Product Certifications

Certifications	UR/UL, CSA, CCC, CE
Standards Compliance — CE Marked	NEMA ICS-5; UL 508, EN ISO 13850, EN 60947-1, EN 60947-5-1, EN 60947-5-5
Terminal Identification	EN/IEC 60947-1
Shipping Approvals	ABS
RoHS	✓

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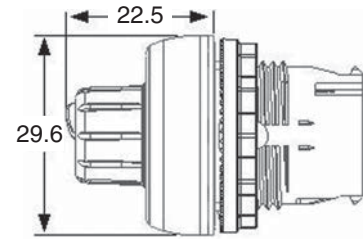Dimensions in millimeters. Dimensions are not intended to be used for manufacturing purposes.

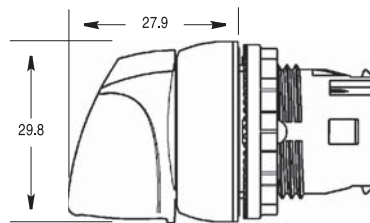**Illuminated and Non-Illuminated 2-Position Multi-Function Operators**

16.8 / 49.6 / 12.8
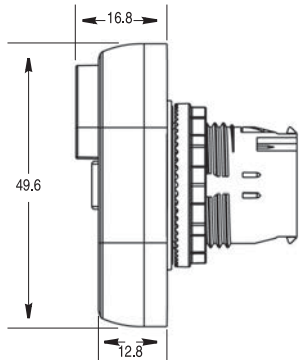
Non-Illuminated 3-Position Multi-Function Operators

17.5 / 49.6 / 12.8
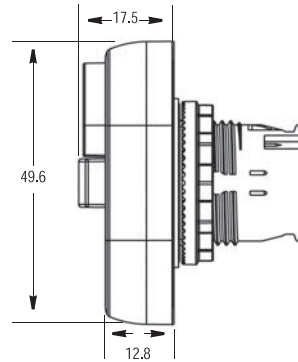
Potentiometer Operator

22.5 / 29.6

Illuminated and Non-Illuminated Knob Selector Switch Operators

27.9 / 29.8

Non-Illuminated Knob Lever Selector Switch Operators

38.8 / 28
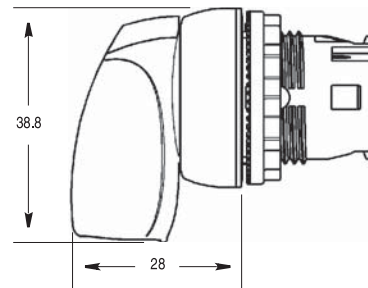
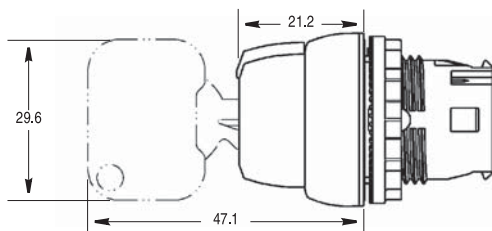**Illuminated and Non-Illuminated Twist-to-Release Operators 30 mm, 40 mm, and 60 mm**

45.0 / A
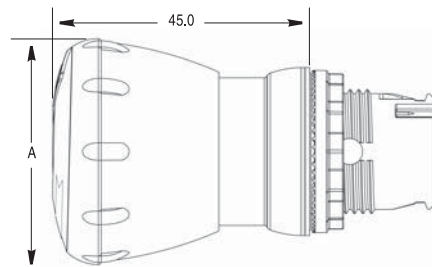
Illuminated and Non-Illuminated Push-Pull Mushroom Operators 30 mm, 40 mm, and 60 mm

45.0 / A
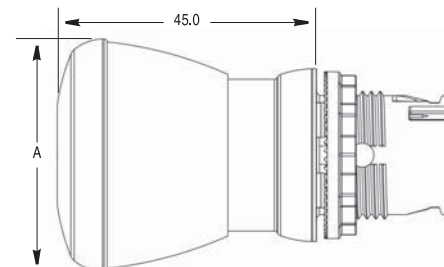
Operator	A
30 mm	30.0
40 mm	40.0
60 mm	60.0

Key Selector Switch and Key Ejected SensEject Operators

21.2 / 29.6 / 47.1

Mushroom Key Release Operator 40 mm

45.0 / 40.0 / 72.0

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