



**Specifications — 22.5 mm\***  
**Front-of-Panel (Operators)**

Description		Mechanical Ratings	
		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.

‡ 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	✓

**Operator Interface**  
**Push Buttons**  
**Bul. 800F 22.5 mm**

**Back-of-Panel Components**

Electrical Ratings			
Standard contact block ratings		A600, Q600 600V AC AC 15, DC 13 to IEC/EN 60947-5-1 and UL 508, 17V, 5 mA min.	
Low voltage contact block ratings*		5V, 1 mA DC min. C300, R150, AC 15, DC 13 to EN 60947-5-1 and UL 508	
	<b>Nominal Voltage</b>	<b>Range</b>	<b>Current Draw</b>
LED Module Ratings	24V AC	10...29V AC	31 mA
	24V DC	10...30V DC	24 mA
	120V AC	70...132V AC	25 mA
	240V AC	180...264V AC	22 mA
Thermal current		10 A max. enclosed (40 °C ambient) to UL508, EN 60947-5-1	
Insulation voltage (Ui)		Screw terminal = 690V, spring-clamp = 300V	
Wire capacity (screw terminal)‡		#18...12 AWG (0.75...2.5 mm <sup>2</sup> ) Max. (2) #14 AWG or (1) #12 AWG	
Wire capacity (spring-clamp terminal)		#18...14 AWG (0.75...1.5 mm <sup>2</sup> ) One per spring clamp, two spring clamps per terminal	
Recommended tightening torque on screw terminals		0.7...0.9 N•m (6...8 lb•in)	
Dielectric strength (minimum)		2500V for one minute	
External short circuit protection	Standard blocks	10 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4)	
	Low voltage contact blocks	6 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4)	
Electrical shock protection		Finger-safe conforming to IP2X	
Mechanical Ratings			
Vibration (assembled to panel)		Tested at 10...2000 Hz, 1.52 mm displacement (peak-to-peak) max./10 G max. 6 hr	
Shock		Tested at 1/2 cycle sine wave for 11 ms and no damage at 100 G max.	
Contact durability per EN 60947-5-1 (Annex C)		10 000 000 cycles	
Contact operation	N.O.	Slow double make and break	
	N.C.	Slow double make and break — positive opening ⊖	
	N.O.E.M.	Double break / double make, early make	
	N.C.L.B.	Double break / double make, late break — positive opening ⊖	
	N.C.E.B.	Double break / double make, early break — positive opening ⊖	
Push button travel to change electrical state	N.C. and N.O.E.M.	1.5 mm (0.060 in.)	
	N.O. and N.C.L.B.	2.5 mm (0.1 in.)	
Operating forces (typical)	Single circuit contact block	3.4 N	
	Dual circuit contact block	5...6.5 N	
Illumination			
LED Dominant Wavelength	Green	525 nm	
	Red	629 nm	
	Yellow	590 nm	
	Blue	470 nm	
	White	—	
LED Luminous Intensity	Green	780 mcd	
	Red	780 mcd	
	Yellow	600 mcd	
	Blue	168 mcd	
	White	360 mcd	
Incandescent maximum wattage		2.6 W	
Materials			
Springs		Stainless steel and zinc coated music wire	
Electrical contacts	Standard	Silver-nickel	
	Low voltage	Gold-plated over silver	
Terminals	Screw	Brass	
	Spring-clamp	Silver-plated brass	

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

\* Low voltage contacts are recommended for applications below 17V, 5 mA.

‡ Wires less than #18 AWG (0.75 mm<sup>2</sup>) may not hold in terminal securely.

4-Emergency Stop Devices

## Material Listing

Component	For Use with	Material Used
Panel gasket	All operators	Nitrile, TPE
Diaphragm seal	Illuminated push button, non-illuminated push button	Automotive industry acceptable silicone
K-seal	Selector switch, key selector switch, push/twist-to-release E-stop, key E-stop, push/pull mushroom	Nitrile
Diaphragm retainer, return spring I	Illuminated push button, non-illuminated push button, momentary mushroom	Stainless steel
Return spring II	Reset, selector switch, key selector switch, alternate action, push/twist-to-release E-stop, key E-stop, push/pull mushroom	Zinc-coated music wire
Button cap/mushroom head	Non-illuminated push button, momentary mushroom, reset, push/twist-to-release E-stop, key E-stop, push/pull mushroom, multi-function	PBT/polycarbonate blend
2-color molded button cap	Non-illuminated push button	PBT/polycarbonate blend
Lens	Multi-function	Acetal
Lens, knob	Illuminated push button, illuminated momentary mushroom, illuminated selector switch	Polyamide
Knob	Non-illuminated selector switch	Glass-filled polyamide
Plastic bezel/bushing I	Non-illuminated push button, illuminated push button, momentary mushroom, selector switch, key selector switch, push/twist-to-release E-stop, key E-stop, push/pull mushroom, multi-function, reset	Glass-filled polyamide
Plastic bezel/bushing II, jam nut	Pilot light, reset jam nut, reset pushers	Glass-filled PBT
Metal bezel/bushing	All metal operators	Zinc
Diffuser	Illuminated push button, pilot light	Polycarbonate
Legend frames	—	Glass-filled polyamide
Plastic mounting ring	All plastic operators	Glass-filled polyamide
Metal mounting ring	All metal operators	Chromated zinc
Plastic latch	—	Glass-filled polyamide
Metal latch	—	Chromated zinc + stainless steel
Plastic enclosure	—	PBT/polycarbonate blend
Metal enclosure	—	Aluminum
Terminal screws	LED module, incandescent module, contact blocks	Zinc-plated steel with chromate
Terminals	LED module, incandescent module, contact blocks	Brass with silver-nickel contacts
Spring clamps	LED module, incandescent module, contact blocks	Stainless steel
Lamp socket	Incandescent module	Brass
Housing	Incandescent module, LED module	Glass-filled polyamide
Low-voltage terminals	Contact blocks	Gold-plated silver-nickel contacts
Low-voltage spanner	Contact blocks	Gold-plated silver-nickel contacts
Spanner	Contact blocks	Brass with silver-nickel contacts
Boot	Toggle Switch, illuminated push button, non-illuminated push button, multi-function illuminated and non-illuminated	Automotive industry acceptable silicone

Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

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.
Red	30	1	800FP-MT34	800FM-MT34	-	-
	40		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.
Red	30	1	-	-	800FP-LMP34	800FM-LMP34
	40		800FP-LMT44	800FM-LMT44	800FP-LMP44	800FM-LMP44
	60		800FP-LMT64	800FM-LMT64	800FP-LMP64	800FM-LMP64

‡ LED module required for illumination, can not use incandescent module.

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.

\* For key options, see the Industrial Controls catalog.

4-Emergency Stop Devices

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** **d**  
 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.
- > Only available with red color cap.
- ‡ For EMO guards, see page 4-45.
- § 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.

Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

2-Position Push-Pull Operators, Illuminated — Twist-to-Release (Trigger Action), Push-Pull (Trigger Action)\*‡



40 mm Mushroom Trigger Action 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 **P** - **LMP4** **3**  
 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.
- ‡ Only available with red color cap.
- § 60 mm version has black arrows; 30 and 40 mm versions have white arrows.
- When using LED for illumination, 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.

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 Ronis replacement keys, see the Industrial Controls catalog. Key release mushroom operators use key no. 3825.

800F **P** - **MK4** **4** **d**  
 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.
- \*\* 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 Ronis replacement keys, see the Industrial Controls catalog.

4-Emergency Stop Devices

Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

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



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

Target Table and Operator Position*			
Contact Type†			
	Out	Center	In
N.O.	O	O	X
N.C.E.B.	X	O	O
N.C.L.B.	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 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

♣ Sold as stand-alone operator only. Not available as a composite catalog number.

\* Cannot use N.C. or N.O.E.M. contact blocks with 3-position push-pull operators. Must use N.O., N.C.E.B., or N.C.L.B. contact blocks.

\* Available in integrated LED version only.

‡ Available in illuminated only.

§ Available in non-illuminated only.

4-Emergency Stop Devices



Momentary Push Button Operators, Non-Illuminated — Mushroom\*



**40 mm Mushroom**  
 Cat. No. 800FP-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	1	800FP-MM42	800FM-MM42	<b>800FP-MM62</b>	800FM-MM62
Green		800FP-MM43	800FM-MM43	<b>800FP-MM63</b>	800FM-MM63
Red		800FP-MM44	800FM-MM44	<b>800FP-MM64</b>	800FM-MM64
Yellow		800FP-MM45	800FM-MM45	<b>800FP-MM65</b>	800FM-MM65
Blue		<b>800FP-MM46</b>	<b>800FM-MM46</b>	<b>800FP-MM66</b>	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	
Mushroom	
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.

Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

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	1	800FP-LMM43	800FM-LMM43
Red		800FP-LMM44	800FM-LMM44
Yellow		800FP-LMM45	800FM-LMM45
Blue		<b>800FP-LMM46</b>	<b>800FM-LMM46</b>
Clear		<b>800FP-LMM47</b>	<b>800FM-LMM47</b>

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)

*b*

Size and Operator Type	
Mushroom	
Code	Type
LMM4	40 mm momentary

*c*

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

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

Back-of-Panel Components

Contact Blocks with Latch — Composite

800F – **P** **X** **0** **1** **E**  
*a* *b* *c* *d* *e*



*a*

Style	
Code	Description
P	Plastic latch
M	Metal latch

*b*

Contact Block(s) Termination Style*	
Code	Description
X	Screw termination
Q	Spring-clamp termination

\* Six circuits maximum allowable.

*c*

N.O. (Normally Open) Circuits	
Code	Description
0	No contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.
5	5 N.O.
6	6 N.O.

*d*

N.C. (Normally Closed) Circuits	
Code	Description
0	No contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.
5	5 N.C.
6	6 N.C.

*e*

Specialty Contact Block(s)	
Code	Description
Blank	Standard blocks
V	Low voltage — QuadCONNECT™
E	N.O. early make
L	N.C. late break
B	N.C. early break
S	N.C. self-monitoring

Power Modules

Power Modules with Latch — Composite

800F – **M** **N** **3** **G**  
*a* *b* *c* *d*



*a*

Style	
Code	Description
P	Plastic latch
M	Metal latch

*b*

Power Module Type†§	
Code	Description
D	Incandescent module, screw termination
N	Integrated LED module, screw termination
Q	Integrated LED module, spring-clamp termination

*c*

Voltage	
Code	Description
0	No bulb♣
1	6V AC/DC♣
2	12V AC/DC♣
3	24V AC/DC
4	48V AC/DC♣
5	120V AC
7	240V AC➤

*d*

Lamp Color⌘	
Code	Description
C	Incandescent
R	Red LED
G	Green LED
Y	Amber LED
W	White LED
B	Blue LED

† LED modules for use with all illuminated operators. Incandescent module for use with pilot lights, momentary push buttons, and momentary mushroom operators only.

§ Four circuits maximum allowable when power module is used. Do not stack contact block on power module.

♣ Only available for incandescent module.

➤ Only available for integrated LED module.

⌘ For best illumination results, LED color should match lens color. For yellow operator, select a white LED.

Back-of-Panel Components, Continued

Power Modules with Contact Blocks and Latch — Composite

800F – **P** **N** **5** **R** **X** **1** **0** **E**  
*a b c d e f g h*

*a*

Style	
Code	Description
P	Plastic latch
M	Metal latch

*b*

Power Module Type*†	
Code	Description
D	Incandescent module, screw termination
N	Integrated LED module, screw termination
Q	Integrated LED module, spring-clamp termination

*c*

Voltage	
Code	Description
0	No bulb‡
1	6V AC/DC‡
2	12V AC/DC‡
3	24V AC/DC
4	48V AC/DC‡
5	120V AC
7	240V AC§

*d*

Lamp Color‡	
Code	Description
C	Incandescent
R	Red LED
G	Green LED
Y	Amber LED
W	White LED
B	Blue LED

*e*

Contact Block(s) Termination Style	
Code	Description
X	Screw termination
Q	Spring-clamp termination

*f*

N.O. (Normally Open) Circuits	
Code	Description
0	No contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.

*g*

N.C. (Normally Closed) Circuits	
Code	Description
0	No contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.

*h*

Specialty Contact Block(s)	
Code	Description
Blank	Standard blocks
V	Low voltage — QuadCONNECT™
E	N.O. early make
L	N.C. late break
S	N.C. self-monitoring

\* Four circuits maximum allowable when power module is used. Do not stack contact block on power module.

† LED modules for use with all illuminated operators. Incandescent module for use with pilot lights, push buttons, and momentary mushroom operators only.




‡ Only available for incandescent module.

§ Only available for integrated LED module.

‡ For best illuminated results, LED should match lens color. For yellow operator, select a white LED.

Back-of-Panel Components, Continued

Other





	Description	Pkg. Quantity	Cat. No.																																																						
 Cat. No. 800F-ALM	<b>Metal Mounting Latch</b> These are zinc-plated, metal die cast mounting latches. <b>Note:</b> Sold only in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces.	10	800F-ALM																																																						
	<b>Note:</b> Sold only in multiples of 100. Order (quantity of) 100 to receive one package of 100 pieces.	100	800F-ALM-BP																																																						
 Cat. No. 800F-ALP	<b>Plastic Mounting Latch</b> <b>Note:</b> Sold only in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces.	10	800F-ALP																																																						
	<b>Note:</b> Sold only in multiples of 100. Order (quantity of) 100 to receive one package of 100 pieces.	100	800F-ALP-BP																																																						
 Cat. No. 800F-X10	<b>Contact Block</b> <b>Note:</b> Sold only in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces. Latch not included.	10	<table border="1"> <thead> <tr> <th data-bbox="1182 705 1276 758">Pkg. Quantity</th> <th data-bbox="1276 705 1471 758">Cat. No.</th> </tr> </thead> <tbody> <tr><td></td><td>800F-X10</td></tr> <tr><td></td><td>800F-X01</td></tr> <tr><td></td><td>800F-X10V</td></tr> <tr><td></td><td>800F-X01V</td></tr> <tr><td>‡</td><td>800F-X10N</td></tr> <tr><td></td><td>800F-X10E</td></tr> <tr><td>➤</td><td>800F-X10M</td></tr> <tr><td></td><td>800F-X01L</td></tr> <tr><td>*</td><td>800F-X01B</td></tr> <tr><td>⊛</td><td>800F-X01S</td></tr> <tr><td>⊛</td><td>800F-X20D</td></tr> <tr><td>⊛</td><td>800F-X02D</td></tr> <tr><td>⊛</td><td>800F-X11D</td></tr> <tr><td></td><td>800F-X10T</td></tr> <tr><td></td><td>800F-X01T</td></tr> <tr><td></td><td>800F-Q10</td></tr> <tr><td></td><td>800F-Q01</td></tr> <tr><td></td><td>800F-Q10V</td></tr> <tr><td></td><td>800F-Q01V</td></tr> <tr><td></td><td>800F-Q10E</td></tr> <tr><td></td><td>800F-Q01L</td></tr> <tr><td>*</td><td>800F-Q01B</td></tr> <tr><td>‡§</td><td>800F-R10</td></tr> <tr><td>‡§</td><td>800F-R01</td></tr> <tr><td></td><td>800F-X10-BP</td></tr> <tr><td></td><td>800F-X01-BP</td></tr> </tbody> </table>	Pkg. Quantity	Cat. No.		800F-X10		800F-X01		800F-X10V		800F-X01V	‡	800F-X10N		800F-X10E	➤	800F-X10M		800F-X01L	*	800F-X01B	⊛	800F-X01S	⊛	800F-X20D	⊛	800F-X02D	⊛	800F-X11D		800F-X10T		800F-X01T		800F-Q10		800F-Q01		800F-Q10V		800F-Q01V		800F-Q10E		800F-Q01L	*	800F-Q01B	‡§	800F-R10	‡§	800F-R01		800F-X10-BP		800F-X01-BP
Pkg. Quantity	Cat. No.																																																								
	800F-X10																																																								
	800F-X01																																																								
	800F-X10V																																																								
	800F-X01V																																																								
‡	800F-X10N																																																								
	800F-X10E																																																								
➤	800F-X10M																																																								
	800F-X01L																																																								
*	800F-X01B																																																								
⊛	800F-X01S																																																								
⊛	800F-X20D																																																								
⊛	800F-X02D																																																								
⊛	800F-X11D																																																								
	800F-X10T																																																								
	800F-X01T																																																								
	800F-Q10																																																								
	800F-Q01																																																								
	800F-Q10V																																																								
	800F-Q01V																																																								
	800F-Q10E																																																								
	800F-Q01L																																																								
*	800F-Q01B																																																								
‡§	800F-R10																																																								
‡§	800F-R01																																																								
	800F-X10-BP																																																								
	800F-X01-BP																																																								
	<b>Note:</b> Sold only in multiples of 100. Order (quantity of) 100 to receive one package of 100 pieces. Latch not included.	100																																																							

‡ For use with Cat. No. 800FP-CB\_ and Cat. No. 800FP-CC\_ operators.  
 ➤ For use with Cat. No. 800FP-CC\_ operators.  
 \* Only for use with 4-position selector switch, 4-position toggle switch, or 3-position push-pull operator.  
 ⊛ Cannot stack.  
 ‡ Cannot be used in a composite catalog number.  
 § Replacement screws are available (Cat. No. 800F-ARS1)

4-Emergency  
 Stop Devices

Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

Back of Panel Components, Continued  
 Other

	Description	Volts	Pkg. Quantity	Cat. No.
 Cat. No. 800F-D3C	<b>Incandescent Module</b> For use with pilot lights, push buttons, and momentary mushroom operators. <b>Note:</b> Sold in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces. Latch not included.	No bulb	10	800F-D0C
		6V AC/DC		800F-D1C
		12V AC/DC		800F-D2C
		24V AC/DC		800F-D3C
		48V AC/DC		800F-D4C
		120V AC/DC		800F-D5C
 Cat. No. 800F-N3G	<b>Integrated LED Module</b> For use with all illuminated devices. For best results, LED should match lens color. For amber operators, use yellow LED. <b>Note:</b> Sold in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces. Latch not included.	24V AC/DC	10	* 800F-N3x
		120V AC		* 800F-N5x
		240V AC		* 800F-N7x
		24V AC/DC spring-clamp		* 800F-Q3x
		120V AC spring-clamp		* 800F-Q5x
		240V AC spring-clamp		* 800F-Q7x
		24V AC/DC ring lug		*‡ 800F-R3x
 Cat. No. 800F-BX01	<b>Base Mounted Contact Block</b> Base mounted contact blocks can be used in plastic or metal enclosures. <b>Note:</b> Sold only in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces. Latch not included.	N.O.	10	800F-BX10
		N.C.		800F-BX01
		N.O. low voltage — QuadCONNECT™		800F-BX10V
		N.C. low voltage — QuadCONNECT™		800F-BX01V
		N.O.E.M.		800F-BX10E
		N.C.L.B.		800F-BX01L
		N.O. spring-clamp		800F-BQ10
		N.C. spring-clamp		800F-BQ01
 Cat. No. 800F-BN3R	<b>Base Mounted Integrated LED Module</b> Base mounted modules can be used in plastic or metal enclosures. For best illumination results, LED should match lens color. <b>Note:</b> Sold in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces. Latch not included.	24V AC/DC	10	* 800F-BN3x
		120V AC		* 800F-BN5x
		240V AC		* 800F-BN7x
		24V AC/DC spring-clamp		* 800F-BQ3x
		120V AC spring-clamp		* 800F-BQ5x
		240V AC spring-clamp		* 800F-BQ7x

\* To complete the cat. no., replace the x with one of the following letters for the desired color: **Y** = Amber, **R** = Red, **G** = Green, **B** = Blue, **W** = White.

\* Cannot be used in a composite catalog number.

‡ Replacement screws are available (Cat. No. 800F-ARS1)

Assembled Stations



1-Hole Yellow Enclosure E-Stop Station

Cat. No. 800F-1YP4

Enclosure Material	Quick Connect	Operator Type	Illumination Voltage	Contact Configuration	Cat. No.			
					PG Knockouts	Metric Knockouts		
Plastic	N/A	Twist-to-Release 40 mm	Non-Illuminated	1 N.C.	800F-1YP1	800F-1YM1		
				1 N.O. / 1 N.C.	800F-1YP2	800F-1YM2		
				2 N.C.	800F-1YP3	800F-1YM3		
				1 N.C.	800F-1YP4	800F-1YM4		
				1 N.O. / 1 N.C.	800F-1YP5	800F-1YM5		
				2 N.C.	800F-1YP6	800F-1YM6		
		Key Release 40 mm		2 N.C.	800F-1YP7	—		
				1 N.O. / 2 N.C.	800F-1YP8	—		
				Twist-to-Release 60 mm	24V AC/DC	1 N.C.	—	800F-1YML1
					120V AC	—	—	800F-1YML2
					240V AC	—	—	800F-1YML3
				AC Micro*	5-pin	Twist-to-Release 40 mm	Non-Illuminated	2 N.C. — Low voltage
	1 N.O. / 2 N.C.	—	800F-1YMQA					
	DC Micro*	4-pin	Twist-to-Release 40 mm	Non-Illuminated/EMO/Guard	1 N.C.	—	800F-NX1	
					1 N.C.	—	800F-1YMQ1	
				Non-Illuminated	1 N.O. / 1 N.C.	—	800F-1YMQ2	
					—	—	800F-1YMQ3	
				Non-Illuminated/EMO/Guard	2 N.C.	—	800F-1YMQ3VEG	
		Non-Illuminated		—	—	800F-1YMQ3V		
		5-pin		4-pin	Non-Illuminated	1 N.C.	—	800F-1YMQ41
					24V AC/DC	1 N.O. / 1 N.C.	—	800F-1YMQ44
					24V AC/DC	1 N.O. / 1 N.C.	—	800F-1YMQ4
					120V AC	1 N.O. / 1 N.C.	—	800F-1YMQ5
	240V AC		1 N.O. / 1 N.C.		—	800F-1YMQ6		
Mini Receptacle*	4-pin	6-pin	24V AC/DC	1 N.O./1 N.C.	—	800F-1MYMQ4		
			120V AC	1 N.O./1 N.C.	—	800F-1MYMQ5		
			240V AC	1 N.O./1 N.C.	—	800F-1MYMQ6		
	6-pin		24V AC/DC	1 N.O./1 N.C.	—	800F-1MYMQ4		
			120V AC	1 N.O./1 N.C.	—	800F-1MYMQ5		
			240V AC	1 N.O./1 N.C.	—	800F-1MYMQ6		

\* Please reference Assembled Station Pin Out Chart on page 4-44

1-Hole Grey Enclosure E-Stop Station

Enclosure Material	Quick Connect	Operator Type	Illumination Voltage	Contact Configuration	Cat. No.	
					PG Knockouts	Metric Knockouts
Metal	N/A	Twist-to-Release 40 mm	Non-Illuminated	1 N.C.	—	800F-1MM1
				1 N.O. / 1 N.C.	—	800F-1MM2
				2 N.C.	—	800F-1MM3
		Key Release 40 mm		1 N.C.	—	800F-1MM4
				1 N.O. / 1 N.C.	—	800F-1MM5
				2 N.C.	—	800F-1MM6

Grey Enclosure Assembled Stations

Enclosure Material	Quick Connect	Operator Type	Illumination Voltage	Contact Configuration	Cat. No.	
					PG Knockouts	Metric Knockouts
1-Hole Plastic	N/A	Black Push Button	Non-Illuminated	1 N.O.	800F-1PP1	800F-1PM1
		"0-1" 2-Position Selector Switch		1 N.O.	800F-1PP2	800F-1PM2
		"OFF-ON" 2-Position Selector Switch		1 N.O. / 1 N.C.	800F-1PP3	800F-1PM3
		↔ (Flush Black)		1 N.O.	800F-1PP4	—
2-Hole Plastic	N/A	Start and Stop Push Buttons	Non-Illuminated	1 N.O./1 N.C.	800F-2PP1	—
3-Hole Plastic		↑ (Flush Black) O (Extended Red) ↓ (Flush Black)		4 N.O./1 N.C.	800F-3PP1	—

4-Emergency  
Stop Devices

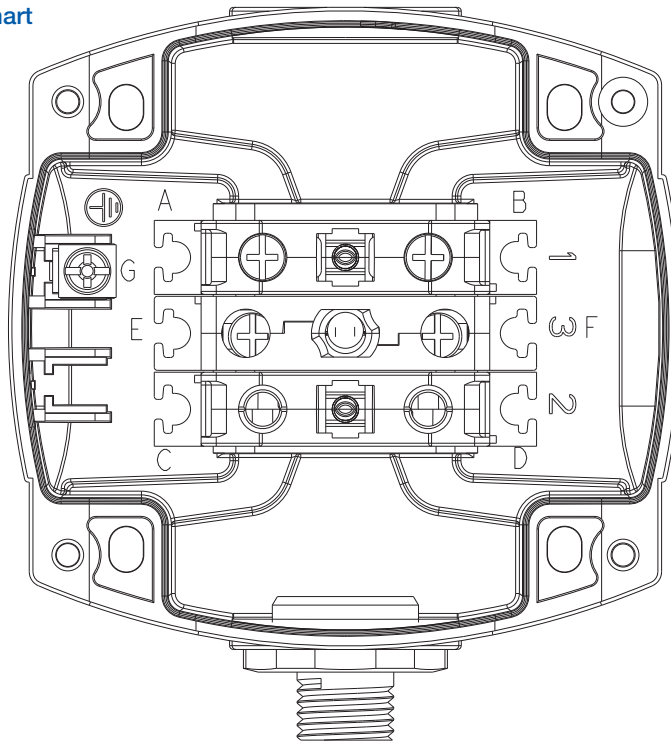
Operator Interface  
**Push Buttons**  
 Bul. 800F 22.5 mm

Assembled Stations, Continued

90 mm Enclosed Stations

Enclosure Material	Quick Connect	Operator Type	Illumination Voltage	Contact Configuration	Cat. No.	
					PG Knockouts	Metric Knockouts
1-Hole, Yellow Plastic	N/A	Red half dome	Non-illuminated	1 N.C.	800F-1YP1HD	800F-1YM1HD
				1 N.O./1 N.C.	800F-1YP2HD	800F-1YM2HD
				2 N.C.	800F-1YP3HD	800F-1YM3HD
		Red 90 mm momentary	Non-illuminated	24V AC/DC	—	800F-1YML1HD
				120V AC	—	800F-1YML2HD
				240V AC	—	800F-1YML3HD
1-Hole, Grey Plastic	Black 90 mm momentary	Non-illuminated	1 N.C.	800F-1YP1M94	800F-1YM1M94	
			1 N.O./1 N.C.	800F-1YP2M94	800F-1YM2M94	
			2 N.C.	800F-1YP3M94	800F-1YM3M94	
			1 N.O./1 N.C.	800F-1PP2M92	800F-1PM2M92	

Assembled Station Pin Out Chart



Cat. No.	Connector Style / No. of Pins	Location 1	A to Pin #	B to Pin #	Location 2	C to Pin #	D to Pin #	Location 3	E to Pin #	F to Pin #	G to Pin #
800F-1YMQ53V	AC Micro / 5-pin	BX01V	1	2	BX01V	4	5	—	—	—	3
800F-1YMQA	AC Micro / 6-pin	BX01	1	5	BX01	2	6	BX10	3	4	—
800F-NX1	DC Micro / 4-pin	BX01	1/4	2/3	—	—	—	—	—	—	—
800F-1YMQ1		BX01	1/4	2/3	—	—	—	—	—	—	—
800F-1YMQ2		BX10V	2	4	BX01V	1	3	—	—	—	—
800F-1YMQ3		BX01V	1	3	BX01V	2	4	—	—	—	—
800F-1YMQ3VEG		BX01V	1	3	BX01V	2	4	—	—	—	—
800F-1YMQ3V		DC Micro / 5-pin	BX01V	1	2	BX01V	4	5	—	—	—
800F-1YMQ41	Mini Receptacle / 4-pin	BX01	2	4	—	—	—	—	—	—	—
800F-1YMQ44		BX10	1	J	BX01	2	4	BN3R	3	J	J
800F-1YMQ4	Mini Receptacle / 6-pin	BX10	1	J	BX01	6	5	BN3R	2	J	J
800F-1YMQ5		BX10	1	J	BX01	6	5	BN5R	2	J	J
800F-1YMQ6		BX10	1	J	BX01	6	5	BN7R	2	J	J
800F-1MYMQ4		BX10	1	J	BX01	6	5	BN3R	2	J	J
800F-1MYMQ5		BX10	1	J	BX01	6	5	BN5R	2	J	J
800F-1MYMQ6		BX10	1	J	BX01	6	5	BN7R	2	J	J

J = Jumper





Visit our website: [www.ab.com/catalogs](http://www.ab.com/catalogs)

Publication S117-CA001A-EN-P





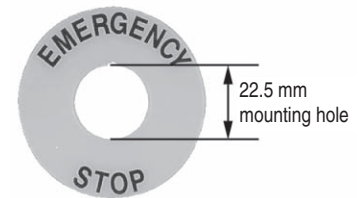


**Guards**

	Description	Type	Cat. No.	Pkg. Quantity
 Cat. No. 800F-AMRG	<b>Protective Ring</b> for use with non-illuminated 2-position momentary and illuminated/non-illuminated 3-position mushroom operators (40 mm only)	Shiny metal	800F-AMRG	1
		Black	800F-AMRGB	
		Yellow Metal	800F-AMRGY	
 Cat. No. 800F-A6PR5	<b>Plastic Guard</b> for use with the following operators: <ul style="list-style-type: none"> <li>• 40 mm E-stop (SEMI Standards Compliant)</li> <li>• 40 mm illuminated/non-illuminated alternate action and momentary operators</li> <li>• 60 mm illuminated/non-illuminated momentary operators</li> <li>• Selector switches (standard knob and key operated)</li> <li>• Potentiometers</li> </ul>	Yellow, round	800F-A6PR5	1
 Cat. No. 800F-AMEGY	<b>Narrow Plastic Guard</b> for use with the following operators: <ul style="list-style-type: none"> <li>• Illuminated and non-illuminated momentary mushroom operators (40 mm) only</li> <li>• Bul. 800FD monolithic E-stops (SEMI standards compliant)</li> <li>• Flush/extended/guarded push buttons</li> <li>• Alternate action operators</li> <li>• Selector switches (standard knob and key operated)</li> <li>• Potentiometers</li> </ul>	Yellow	800F-AMEGY	
 Cat. No. 800F-AMMG	<b>40 mm Protective Guard</b> used with illuminated and non-illuminated momentary mushroom operators (40 mm) only.	Shiny Metal	800F-AMMG	

**Emergency Stop Legend Plates§**

800F – 15YS  



Cat. No. 800F-15YSE112

**b (cont'd)**

Size/Color (Yellow)	
Code	Description
15Y	60 mm round (30.5 mm mounting hole)
15YS	60 mm round (22.5 mm mounting hole)➤
16Y	90 mm round (22.5 mm mounting hole)➤

Text	
Code	Description
Blank	No text
E112	EMERGENCY STOP
F112	ARRÊT D'URGENCE⚡
G112	NOT AUS
T112	ARRESTO EMERGENZA
S112	PARADA DE EMERGENCIA
B112	EMERGENCY STOP, ARRÊT D'URGENCE, PARADA DE EMERGENCIA⚡

Text	
Code	Description
M112	NOT AUS, ARRESTO EMERGENZA, ARRÊT D'URGENCE +
	EMERGENCY STOP, ARRÊT D'URGENCE, NOT AUS❖
D112	NOODSTOP⚡
N112	NÖDSTOPP, EMERGENCY STOP⚡
W112	NÖDSTOPP, EMERGENCY STOP⚡
A112	NÖDSTOP
L112	NEYÐARSTOPP, NEYÐARSTOPP⚡
H112	NÖD-STOP, HÄTÄ-SEIS, NÖD-STOP⚡

§ Sold only multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces.

➤ Not for use with base mounted contact blocks.

⚡ Not available on 15YS version.

+ Text printed on the 15Y version only.

❖ Text printed on the 15YS & 16Y versions only.