

Bulletin 800FC
22.5 mm Configured Pendant Stations
 Product Selection

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Enclosures

Enclosure Type	Pkg. Quantity	Pendants — Yellow Plastic IP66 Cat. No.*
3-hole	1	800FC-3Z
5-hole		800FC-5Z
7-hole		800FC-7Z
9-hole		800FC-9Z

* Housings supplied with cable sleeve, hanger ring, cable clamp, wire guides, and gasket.



Cat. No. 800FC-3Z



Cat. No. 800FC-7Z

1-, 2-, and 3-Speed Operators §*

800FP – C $\frac{A}{a}$ $\frac{1}{b}$ $\frac{U243}{c}$



a

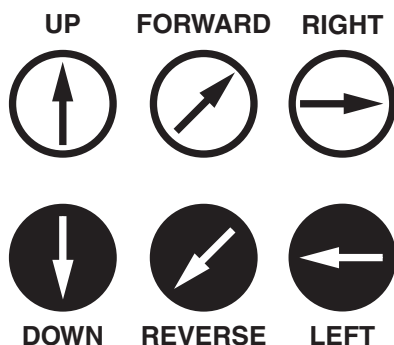
Operator Type	
Code	Description
A	1-speed single arrow
D	1-speed double arrow
B	2-speed
C	3-speed*





* Proper contact block assembly of these devices is required. Please see contact block information on page 104.

b

Cap Color	
Code	Description
1	White
2	Black

Arrow Direction Chart



	Symbol					
	Code	Valid with Table a Selections:	Description†			
			Vertical Mounting		Horizontal Mounting	
			Black with White Arrow	White with Black Arrow	White with Black Arrow	Black with White Arrow
	U100	A, B, C	Blank	Blank	Blank	Blank
			One-Speed Operators			
	U241	A	DOWN	UP	—	—
	U243		—	—	RIGHT	LEFT
	U244		REVERSE	FORWARD	—	—
	U246		—	—	FORWARD	REVERSE
	U700		LEFT	RIGHT	UP	DOWN
	U261	D	DOWN FAST	UP FAST	—	—
	U263		—	—	RIGHT FAST	LEFT FAST
	U264		REVERSE FAST	FORWARD FAST	—	—
	U266		—	—	FORWARD FAST	REVERSE FAST
	U260		LEFT FAST	RIGHT FAST	UP FAST	DOWN FAST
			Two-Speed Operators			
	U271	B	2-speed DOWN	2-speed UP	—	—
	U273		—	—	2-speed RIGHT	2-speed LEFT
	U274		2-speed REVERSE	2-speed FORWARD	—	—
	U276		—	—	2-speed FORWARD	2-speed REVERSE
	U270		2-speed LEFT	2-speed RIGHT	2-speed UP	2-speed DOWN
			Three-Speed Operators			
	U291	C	3-speed DOWN	3-speed UP	—	—
	U293		—	—	3-speed RIGHT	3-speed LEFT
	U294		3-speed REVERSE	3-speed FORWARD		
	U296				3-speed FORWARD	3-speed REVERSE
	U290		3-speed LEFT	3-speed RIGHT	3-speed UP	3-speed DOWN

Note: Please see page 104 for proper latch and contact block configurations.

† Text (DOWN, UP, LEFT, etc.) indicates arrow direction. Text is **not** printed on operators.

§ Cat. No. 800F-ALP (standard latch) and Cat. No. 800FC-ALP (mechanical interlock latch) can be used with these operators.

* Booted style of operators for pendant stations.

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Specifications

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Front-of-Panel (Operators)

Mechanical Ratings		
Description		Plastic (Bulletin 800FP)
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*		IP66 (Type 4/4X/13)
Mechanical durability per EN 60947-5-1 (Annex C)	10 000 000 Cycles	Momentary push buttons
	1 000 000 Cycles	Multi-function, selector switch, key selector switch
	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
Operating torque (typical application with one contact block)		Selector switch = 0.25 N•m (2.2 lb•in)
Mounting torque		1.7 N•m (15 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.

‡ 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) - fully populated 9-hole pendant enclosure 45 °C (113 °F) with 75 °C wire.

Note: Use UL Listed type S or SJ cords, with a smooth outer jacket rated for wet locations use (marked W) and oil resistant outer covering (marked O) such as SOW or SJOW with copper wire, rated 75 °C min., 18...12 AWG, with an overall OD of 7.5...15 mm for the small cable sleeve (**Cat. No. 800FC-AS3**) and 9...22.5 mm for the large cable sleeve (**Cat. No. 800FC-AS5**).

Material Listing

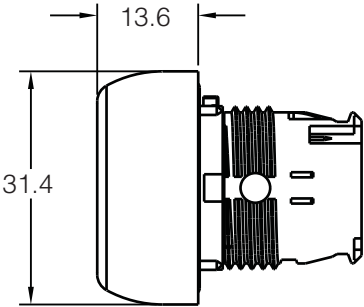
Component	For Use with	Material Used
Panel gasket	All operators	Nitrile, TPE
Diaphragm seal	Illuminated push button, non-illuminated push button	Automotive industry acceptable silicone
K-seal	Selector switch, key selector switch, push/twist-to-release E-stop, key E-stop	Nitrile
Diaphragm retainer, return spring I	Illuminated push button, non-illuminated push button	Stainless steel
Return spring II	Selector switch, key selector switch, alternate action, push/twist-to-release E-stop, key E-stop	Zinc-coated music wire
Button cap	Non-illuminated push button, push/twist-to-release, E-stop, key E-stop, 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	Polyamide
Knob	Non-illuminated selector switch	Glass-filled polyamide
Plastic bezel/bushing I	Non-illuminated push button, illuminated push button, selector switch, key selector switch, push/twist-to-release E-stop, key E-stop, multi-function	Glass-filled polyamide
Plastic bezel/bushing II	Pilot light	Glass-filled PBT
Diffuser	Illuminated push button, pilot light	Polycarbonate
Plastic mounting ring	All plastic operators	Glass-filled polyamide
Plastic latch	—	Glass-filled polyamide
Mechanical interlock latch	—	Glass-filled polyamide
Plastic enclosure	—	PBT/polycarbonate blend
Terminal screws	LED module, contact blocks	Zinc-plated steel with chromate
Terminals	LED module, contact blocks	Brass with silver-nickel contacts
Housing	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	Illuminated push button, non-illuminated push button, multi-function illuminated and non-illuminated	Automotive industry acceptable silicone

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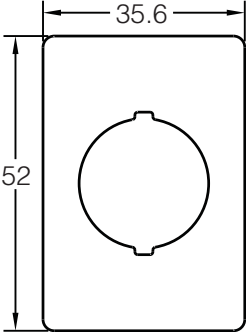
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Approximate Dimensions

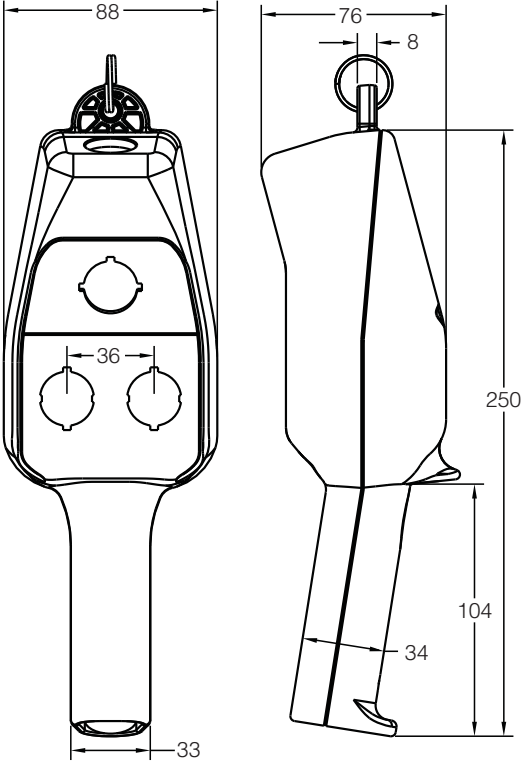
Approximate Dimensions *
 Bul. 800FC 1-, 2-, and 3-Speed Operator



Bul. 800FC Legend Plate

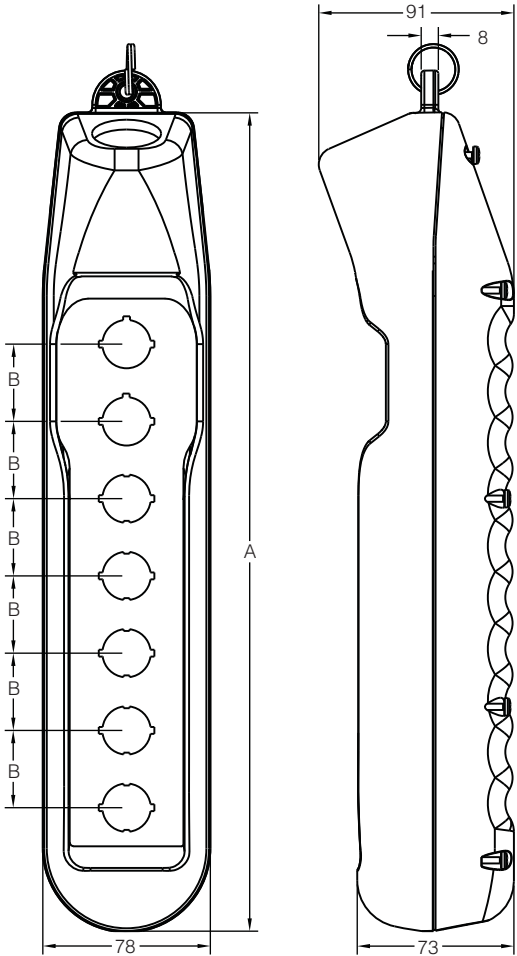


Bul. 800FC Pendant Station (3-Hole)



Bul. 800FC Pendant Station (5-, 7-, and 9-Hole)

Cat. No.	No. of Holes	A	B
800FC-4/5/C/D	5	309	36
800FC-6/7/E/F	7	381	36
800FC-8/9/G/H	9	453	36



* For Bul. 800F operator dimensions, see page 10-120.