Panel Mount Pushbutton Switch



F8 series

Features

- Snap-in panel mounting
- High overtravel
- · Choice of standard housing or button barrier
- 3 terminal types

- Double make / break shorting bars
- Agency approved extended life available
- 3 mm (0.12") minimum contact gap
- Cadmium contacts for high load requirements

Standard Parts¹

F81A-A120 F82A-A120 F81X-A120 F82X-A120

For configurable part numbers that are not listed above, not listed in your region, or for custom part numbers, contact the factory or your distributor: switches-sensors@zf.com

Order Code Matrix

Prefix	<u>, </u>	
Code	EN 61058 Rating	UL1054 Rating
1	10(3)A 400 VAC	10A 125/250 VAC; 3/4 HP 125VAC 1.5HP 250 VAC, 6A@ 30VDC
2	16(6)A 250VAC	16A 125/250 VAC; 3/4HP 125VAC; 1.5HP 250VAC; 6A@ 30VDC

Code	Pole	Contact Cor	figuration
Α	1 & 3	SPST NO DM Vacant	F
J	1 2 3	SPST NO DM SPDT NC DM SPDT NO DM	僃
×	1 8 2	Vacant SPST NC DM	īī
Υ	1 & 3	Vacant SPST NC DB	[-]
Z	1 2 3	Vacant SPDT NC DB SPDT NO DM	٦٢
٧	1 2&3	SPST NO DM Vacant	$-\Gamma$

B		1		20**
Code	Case	Code	Туре	
Α	Basic	1	Standard	
В	Actuator Barrier	I		_
		Code	Terminal Type	inches (mm)
		10	0.187 × 0.020 (4.	75 x 0,51) QC
		20	0.250 × 0.032 (6.	35 x 0.81) QC
		40	0.187 × 0.032 (4.	75 × 0.81) QC
			r 100,000 cycle UL it digit of part numb	

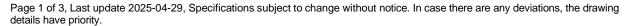
instance part number would be F82A-B12L

Electrical Specifications - Contact Ratings

Switch Series	EN61058		UL1054	
	Nominal load	Operation cycles	Nominal load	Operation cycles
F81	10(3)A, 400 VAC	50,000	10A, 125/250 VAC, ¾ HP 125 VAC	6,000*
			1 ½ HP 250 VAC; 6 A 30VDC	
F82	16(6)A, 250 VAC	50,000	16A, 125/250 VAC, ¾ HP 125 VAC	6,000*
			½ HP 250VAC; 6A 30VDC	
F83	0.1(0.05)A, 250 VAC	50,000	0.1A, 125/250 VAC	6,000*

^{*} Indicates 100K UL approved life available

https://switches-sensors.zf.com/





¹The part number configuration matrix below provides details to the part numbers above.

^{*} F82J Obsolete October, 2023

Environmental and Mechanical Specifications

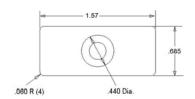
Operating force	max. 850 cN
Temperature range	-25°C to +85 °C

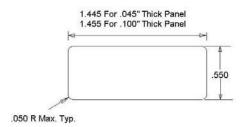
Material Specifications

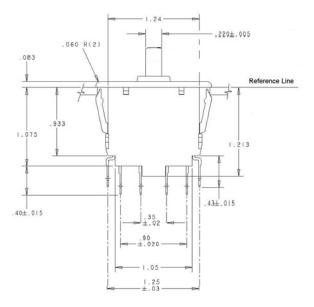
Case	Thermoplastic Polyester
Actuator button	Thermoplastic Polyester
Terminals	Brass
Moving blade	Brass
Springs	Stainless steel
Contacts	F81/F82: Silver Alloy, F83: Gold Crosspoint
Degree of protection switch interior	IP40

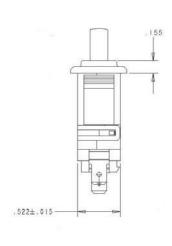
Dimensions inches (mm)

Basic Case Housing



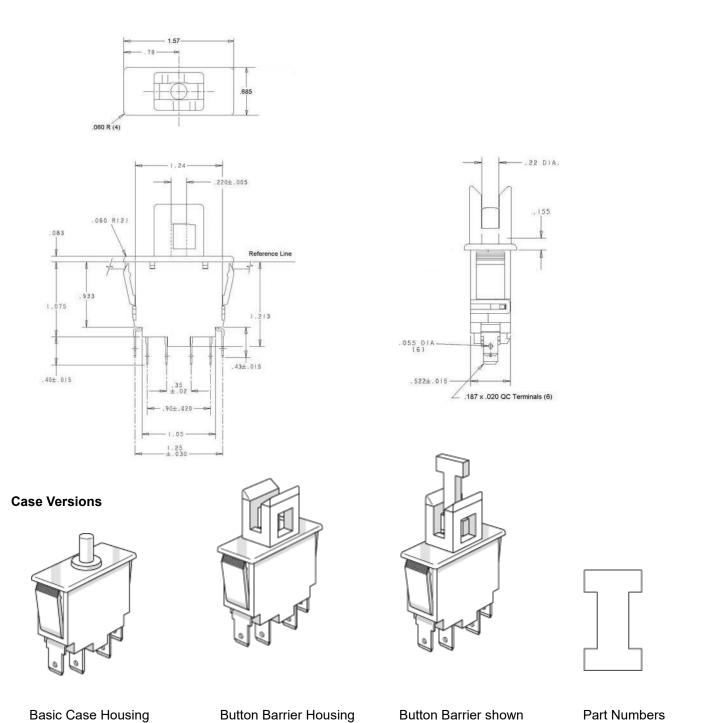






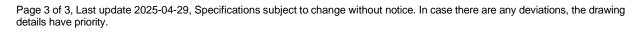


Button Barrier Housing



Red: 0014-5451

White: 0014-4945



with "Cheat" tool

