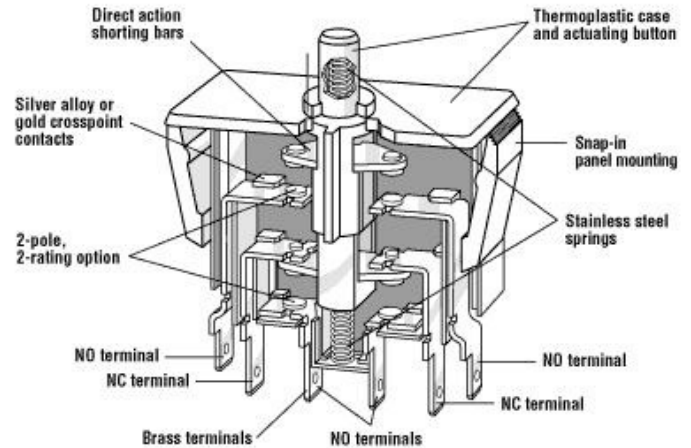


## Line Interrupt Panel Mount Pushbutton Switch

# F80 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
- International approval standard
- 3mm (0.12") minimum contact gap

### Electrical Ratings and Operating Life

| Switch Series | According to EN61058          |                  | According to UL1054                                           |                  |
|---------------|-------------------------------|------------------|---------------------------------------------------------------|------------------|
|               | Nominal Load                  | Operation cycles | Nominal Load                                                  | Operation cycles |
| F81           | 10(3)A, 400 VAC               | 50,000           | 10A, 125/250 VAC, 3/4HP 125 VAC<br>1 1/2 HP 250 VAC; 6A 30VDC | 6000*            |
| F82           | 16(6)A, 250 VAC               | 50,000           | 16A, 125/250 VAC, 3/4 HP 125VAC<br>1 1/2 HP 250VAC; 6A 30VDC  | 6000*            |
| F83           | 0.1(0.05)A, 250 VAC           | 50,000           | 0.1A, 125/250 VAC                                             | 6000*            |
| F84           | Mixed ratings Consult factory | 50,000           | Mixed ratings. Consult factory.                               | 6000*            |

\* Indicates 100K UL approved life available

| Technical Specifications |                | Material Specifications |                                                                                    |
|--------------------------|----------------|-------------------------|------------------------------------------------------------------------------------|
| Temperature Rating:      | -25°C to +85°C | Case:                   | Thermoplastic Polyester                                                            |
| Flammability Rating:     | UL94V-0        | Actuator button:        | Thermoplastic Polyester                                                            |
|                          |                | Terminals:              | Brass                                                                              |
|                          |                | Moving Blade:           | Brass                                                                              |
|                          |                | Springs:                | Stainless Steel                                                                    |
| UL File Number:          | E23301         | Contacts:               | F81/F82: Silver Alloy<br>F83: Gold Crosspoint<br>F84: Silver Alloy/Gold Crosspoint |

RoHS Compliant

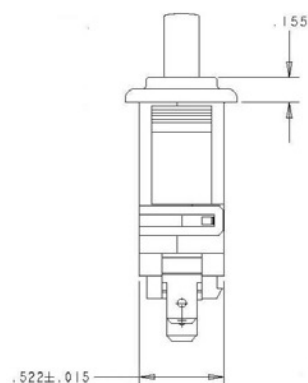
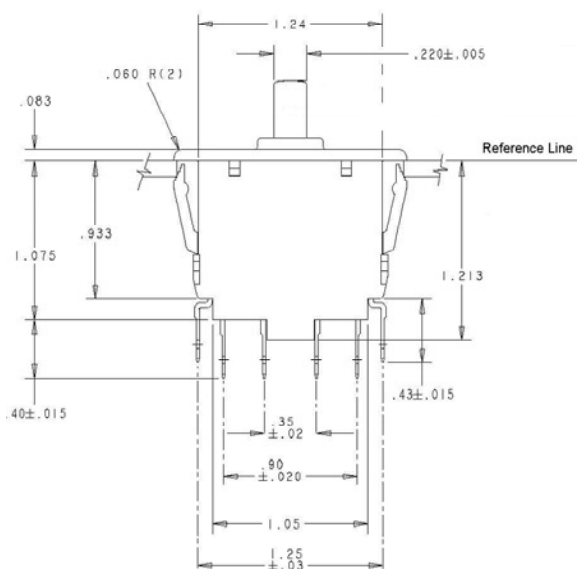
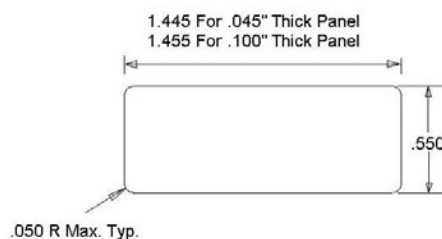
Specifications subject to change without notice



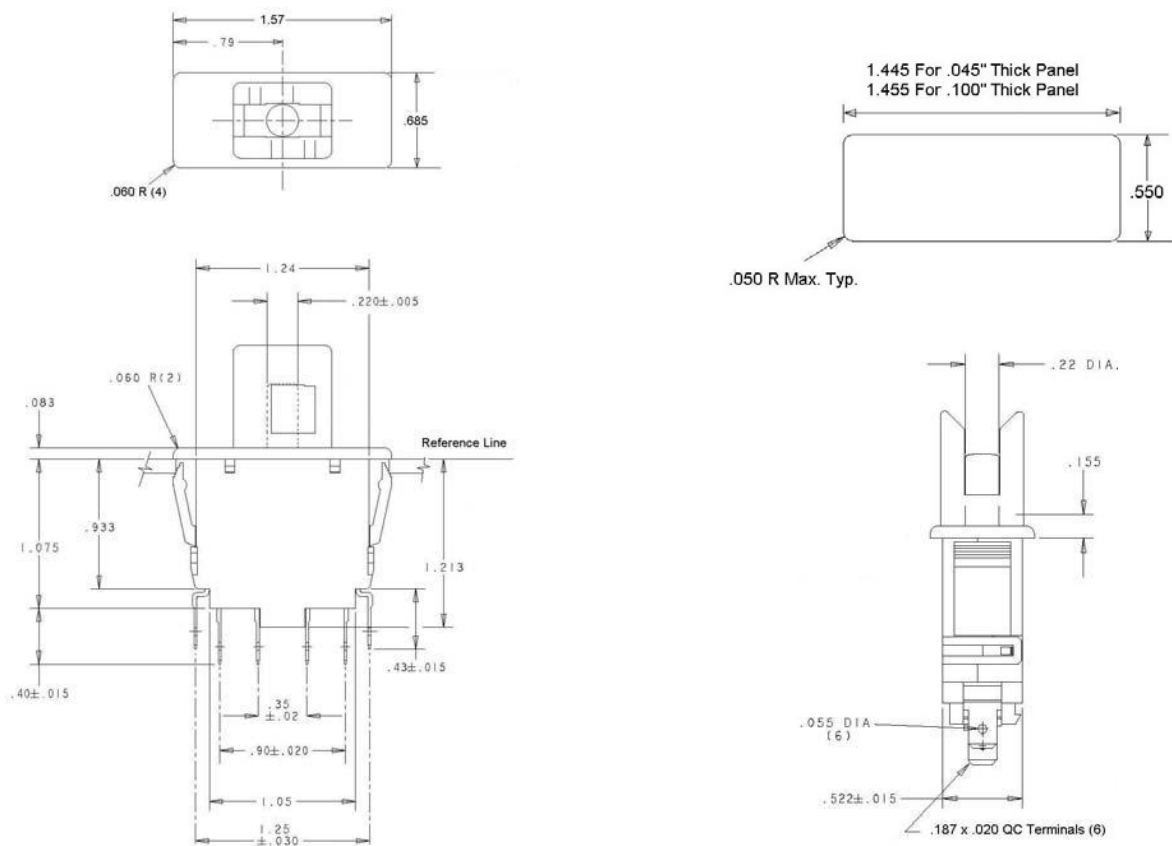
# F80 Series

'Cheat' tool

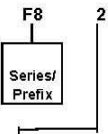
## BASIC CASE HOUSING



BUTTON BARRIER HOUSING (F81J-B110 shown)



Ordering Information



| Code | EN 61058 Rating    | UL1054 Rating                                              |
|------|--------------------|------------------------------------------------------------|
| 1    | 10(3)A 400 VAC     | 10A 125/250 VAC; 3/4 HP 125VAC<br>1.5HP 250 VAC, 6A@ 30VDC |
| 2    | 16(6)A 250VAC      | 16A 125/250 VAC; 3/4HP 125VAC;<br>1.5HP 250VAC, 6A@ 30VDC  |
| 3    | 0.1(0.05)A 250 VAC | 0.1A 125/250 VAC                                           |
| 4*   | Mixed Ratings      |                                                            |

\* Special order. Contact factory for part number

A

| Code | Pole        | Contact Configuration                  |
|------|-------------|----------------------------------------|
| A    | 1 & 3<br>2  | SPST NO DM<br>Vacant                   |
| J    | 1<br>2<br>3 | SPST NO DM<br>SPDT NC DM<br>SPDT NO DM |
| X    | 1 & 2<br>3  | Vacant<br>SPST NC DM                   |
| Y    | 1 & 3<br>2  | Vacant<br>SPST NC DB                   |
| Z    | 1<br>2<br>3 | Vacant<br>SPDT NC DB<br>SPDT NO DM     |
| V    | 1<br>2 & 3  | SPST NO DM<br>Vacant                   |

\*DB= Double break  
\*DM= Double make

B

| Code | Case             |
|------|------------------|
| A    | Basic            |
| B    | Actuator Barrier |

1 20\*\*

| Code | Type     |
|------|----------|
| 1    | Standard |

| Code | Terminal Type inches (mm)      |
|------|--------------------------------|
| 10   | 0.187 x 0.020 (4.75 x 0.51) QC |
| 20   | 0.250 x 0.032 (6.35 x 0.81) QC |
| 40   | 0.187 x 0.032 (4.75 x 0.81) QC |

\*\* To order 100,000 cycle UL approved switch, make last digit of part number an 'L'. For instance part number would be F82A-B12L

Specifications subject to change without notice



## Specifications

| Switch Part Number | Maximum Operate Force (g) | Maximum Pre-Travel inches(mm) | Operating Point inches (mm)        | Minimum Overtravel inches (mm) | Full Overtravel Position inches(mm) | Max. Rest Position* inches(mm) |
|--------------------|---------------------------|-------------------------------|------------------------------------|--------------------------------|-------------------------------------|--------------------------------|
| F81A-A120          | 866                       | 0.236 (5.99)                  | 0.354 +/- 0.039<br>(8.99 +/- 0.99) | 0.079 (2.01)                   | 0.305 (7.75)                        | 0.551 (14.00)                  |
| F82A-A120          | 866                       | 0.236 (5.99)                  | 0.354 +/- 0.039<br>(8.99 +/- 0.99) | 0.079 (2.01)                   | 0.305 (7.75)                        | 0.551 (14.00)                  |
| F81X-A120          | 866                       | 0.236 (5.99)                  | 0.354 +/- 0.039<br>(8.99 +/- 0.99) | 0.079 (2.01)                   | 0.305 (7.75)                        | 0.551 (14.00)                  |
| F82X-A120          | 866                       | 0.236 (5.99)                  | 0.354 +/- 0.039<br>(8.99 +/- 0.99) | 0.079 (2.01)                   | 0.305 (7.75)                        | 0.551 (14.00)                  |

Note: Characteristics taken above reference line

Specifications subject to change without notice

## Contact

Call, fax or visit our  
Website for more information.

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The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.

Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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