Bulletin 800K Piezoelectric Push Buttons

Designed for High-pressure Wash-down Environments

Features and Benefits

IP69K Rating
- Protected against close-range high pressure, high temperature caustic wash
- Ideal for food, beverage and similar application environments

316 Stainless-steel
- Corrosion resistant to caustic wash-down solutions

Smooth, Crevice-free Surface
- Easier to clean
- Minimizes areas on the button in which contaminates can potentially be lodged

No Moving Parts
- By using piezoelectric technology, moving seals and crevices can be eliminated from the push button, avoiding potential sources for failure

Potted Circuit
- Helps prevent fluids from corroding operator components
- Provides an additional barrier of protection

Certifications and Standards
- UL508
- CSA
- EN IEC 60947
- ECOLAB chemical resistance

Custom Laser Engraving
- Avoids potentially contaminate-trapping legend plates
- Provides flexibility to address a wide range of applications

Overview

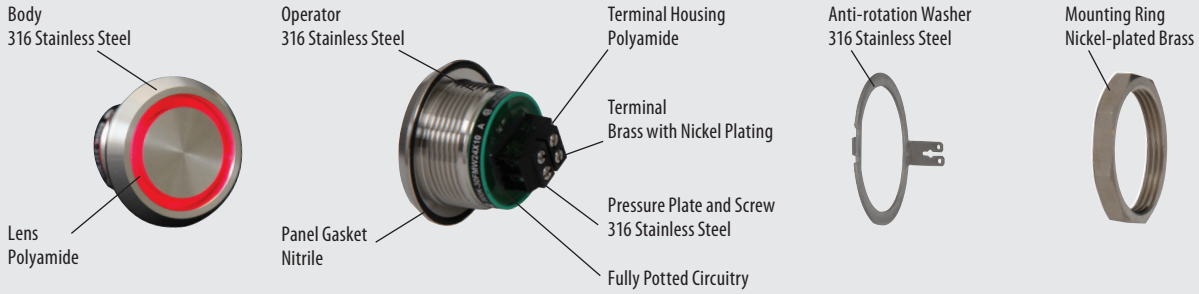
Responding to the challenges of food, beverage and other industries where high-pressure, caustic wash-downs can challenge even the most robust push buttons, Rockwell Automation introduces the 800K push button line. Customers told us they need a solution that could:

- Minimize production loss due to cleaning procedures
- Minimize frequent replacement due to corrosion
- Minimize bacteria growth potential from crevices
- UL Certified product for industrial panel

These 22.5 and 30.5 mm push buttons represent an innovative rethinking of push button technology and its industrial applications. They use a potted piezoelectric circuit in an SAE grade 316 stainless-steel body and achieve an IP69K rating. The piezoelectric circuit detects pressure on the surface of the button to provide a momentary actuation signal with no moving parts. A smooth, crevice-free button surface is the result.

Both sizes of 800K buttons are available in illuminated and non-illuminated versions. The illuminated buttons use a translucent light pipe to bring the red, green, white, blue or yellow LED illumination to a ring on the crevice-free operating surface. Red illuminated buttons have a single normally-closed circuit while all other models are provided with a single normally-open circuit. The momentary contacts can be directly connected to a programmable controller or with an appropriate interposing relay.

Materials and Construction



Catalog Number Configuration

800K- 30 FM G 24 X 10 E100J

a b c d e f g

a

Operator Size	
Code	**Description**
22	22.5 mm
30	30.5 mm

b

Operator Type	
Code	**Description**
FM	Flush, Momentary

* N.O. contact only available with color codes N, G, W, B, Y.
§ N.C. contact only available with color code R.
❖ See Selection Guide for engraving details.

c

Color	
Code	**Description**
N	Non-illuminated
G	Green (illuminated)
R	Red (illuminated)
W	White (illuminated)
B	Blue (illuminated)
Y	Yellow (illuminated)

d

Voltage	
Code	**Description**
24	24V DC

e

Termination Style	
Code	**Description**
X	Screw termination

f

Contact Block	
Code	**Color**
10	1 N.O. *
01	1 N.C. §

g

Laser Engraving – Font Size ❖	
Code	**Description**
Blank	No engraving
E100G	Custom text – font size 12 pt
E100H	Custom text – font size 16 pt
E100J	Custom text – font size 20 pt
U100	Custom symbol

Specifications

Mechanical Ratings		
Degree of Protection	UL Type 4/4X/13; IP68, IP69K	
Life Expectancy	50,000,000 cycles	Momentary push buttons
Operating Forces (typical)	5…9 N (1…2 lb)	
Environmental		
Temperature Range (operating)	UL: -25…+50 °C (-13…+122 °F)* -25…+70 °C (-13…+158 °F)*	
Pollution Degree	3	
Electrical Ratings		
Switch Ratings	UL 508, General Use, EN / IEC 60947-5-1: AC-12 SG, DC-12 SU 24V DC, 100 mA (NC), 200 mA (NO pulse)	
Insulation Voltage (Ui)	60V	
Dielectric Strength (minimum)	1000V for one minute	
External Short Circuit Protection	Fast-acting fuse	
Electrical Shock Protection	Finger-safe terminals conforming to IP2X	
Lamp Ratings		
LED	24V DC Nominal Voltage, 19 mA current draw, 3 mA leakage current, separate power circuit	
LED Luminous Intensity	Green Red White Blue Yellow	10 mcd (min), 300 mcd (typical) 70 mcd (min), 200 mcd (typical) 110 mcd (min), 300 mcd (typical) 90 mcd (min), 150 mcd (typical) 110 mcd (min), 300 mcd (typical)

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