

# PEB SERIES PIEZOELECTRIC SWITCHES

Essex Piezoelectric Switches are heavy duty, timed electronic switches with a new & improved weatherproof design. With two outputs (1 N/O, 1 N/C) and an adjustable output time of 1 to 40 seconds, these bi-colored vandal resistant switches can be used to control an automatic door, electric lock/strike, magnetic lock or any electrically controlled device. Essex Piezoelectric Switches feature jumper selectable illumination status. Brilliant red, vibrant green or no illumination can be selected to show relay ON or relay OFF status. Illumination can also be controlled externally.

**\* Important Note:** Due to the electrical design of Essex Piezoelectric Switches, they will not operate with <11VDC. Backup power (i.e. UPS – Uninterruptible Power Supply) is required for operation during a power interruption. Some local building or fire safety regulations may limit the use of electronic exit buttons. Consulting with local officials and getting approval is recommended prior to installing exit buttons. Contact Essex technical support for wiring suggestions.



PEBSS2-US



PEBSSN1

### Features

#### Switch Technology

Essex proprietary Piezoelectric Billion Cycle Switch Technology™.

#### New Weatherproof Design

Circuit assembly encapsulation

#### Vandal Resistant

Stainless Steel Mounting Plate and Solid State Button

#### Custom Laser Marking

Included at no charge for orders of 50 or more

#### Field Selectable Illumination Status

Jumper Selectable or Externally Controlled

Relay OFF: Red, Green or No Illumination

Relay ON: Red, Green or No Illumination

#### Adjustable Output Time

1-40 seconds

#### Mounting Method

Single gang: Mounts directly to a single gang switchbox or optional mounting back box (BAK-BOXSGS).

Narrow: Mullion mount.

#### New Limited Lifetime Warranty

Lifetime Warranty against defects in materials and workmanship.

### Specifications

#### Power Requirements

12 to 24VDC

#### Outputs

One Normally Open, One Normally Closed

- 2A 30VDC Resistive

- ½A 125VAC

Jumper Selectable Relay (Normally ON or OFF) for fail safe or fail secure operation

#### Relay Life Expectancy

100,000 @ 2A 30VDC

500,000 @ 1A 30VDC

#### Current Draw

|          | LED's ON | LED's OFF |
|----------|----------|-----------|
| Standby  | < 60mA   | < 10mA    |
| Relay On | < 120mA  | < 60mA    |

#### Switch Operating Environment

- 40° F to + 160°F (-40°C to + 70°C)

#### Dimensions

|             | Height | Width | Depth |
|-------------|--------|-------|-------|
| Single Gang | 4 ½"   | 2 ¾"  | 1 ¼"  |
| Narrow      | 4 ½"   | 1 ¾"  | 1 ¼"  |

#### Material

Stainless Steel Faceplate and button cap.

#### Weight

Single Gang: 7.2 oz. (204 gm)

Narrow: 5.1 oz. (145 gm)

## ORDERING GUIDE

|             |                                      | Faceplate Graphics      | LIST PRICE |
|-------------|--------------------------------------|-------------------------|------------|
| PEBA – 1    | Piezoelectric Switch Assembly        | N/A – No Faceplate      | \$106      |
| PEBSS0 – US | U.S Single Gang Piezoelectric Switch | No Graphics             | 149        |
| PEBSS1 – US | U.S Single Gang Piezoelectric Switch | "EXIT" in Red           | 149        |
| PEBSS2 – US | U.S Single Gang Piezoelectric Switch | "PUSH TO EXIT" in Red   | 149        |
| PEBSS4 – US | U.S Single Gang Piezoelectric Switch | "EMERGENCY EXIT" in Red | 149        |
| PEBSSN0     | Narrow Piezoelectric Switch          | No Graphics             | 149        |
| PEBSSN1     | Narrow Piezoelectric Switch          | "EXIT" in Red           | 149        |

Custom graphics in Black also available – Contact Essex for details

