

### 5N Type Side-operational Light Touch Switches

Type: **EVQPF**



#### ■ Features

- Wealth of product types: Horizontal type, snap-in terminals, etc.
- Can be automatically dip-soldered: Integral molding of the terminals and main body prevents the escape of flux.

#### ■ Recommended Applications

- Operating switches for other electronic equipment

#### ■ Explanation of Part Numbers

|              |          |          |          |          |        |   |                  |   |
|--------------|----------|----------|----------|----------|--------|---|------------------|---|
| 1            | 2        | 3        | 4        | 5        | 6      | 7 | 8                | 9 |
| <b>E</b>     | <b>V</b> | <b>Q</b> | <b>P</b> | <b>F</b> |        |   |                  |   |
| Product Code |          |          | Type     |          | Height |   | Push Plate Color |   |

#### ■ Specifications

| Type                              |                                 | Snap action/Push-on type SPST                               |                   |
|-----------------------------------|---------------------------------|-------------------------------------------------------------|-------------------|
| Electrical                        | Circuit Diagram                 |                                                             |                   |
|                                   | Rating                          | 10 $\mu$ A 2 Vdc to 20 mA 15 Vdc (Resistiv load)            |                   |
|                                   | Contact Resistance              | 50 m $\Omega$ max.                                          |                   |
|                                   | Insulation Resistance           | 50 M $\Omega$ min. (at 100 Vdc)                             |                   |
|                                   | Dielectric Withstanding Voltage | 250 Vac for 1 minute                                        |                   |
|                                   | Bouncing                        | 3 ms max. (ON)<br>8 ms max. (OFF)                           |                   |
| Mechanical                        | Operating Force                 | 1.0 N $\pm$ 0.4 N<br>1.3 N $\pm$ 0.4 N<br>1.6 N $\pm$ 0.5 N | 2.6 N $\pm$ 0.6 N |
|                                   | Travel                          | 0.25 mm $\pm$ 0.10 mm                                       |                   |
| Endurance                         | Operating Life                  | 100000 cycles min.*                                         | 50000 cycles min. |
| Operating Temperature             |                                 | -20 $^{\circ}$ C to +70 $^{\circ}$ C                        |                   |
| Storage Temperature               |                                 | -40 $^{\circ}$ C to +85 $^{\circ}$ C (Bulk)                 |                   |
| Minimum Quantity/<br>Packing Unit | Top-push                        | 500 pcs. Polyethylene Bag (Bulk)                            |                   |
| Quantity/Cartron                  | Top-push                        | 10000 pcs.                                                  |                   |

\*1 million cycles also available, consult our salesmen.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

EVQPF

PWB mounting hole for reference  
(PWB thickness=1.6 mm)  
View from mounting side

Circuit diagram

| Part Numbers | Operating Force | ℓ =Push Plate Place | Push Plate Color | Operating Life |
|--------------|-----------------|---------------------|------------------|----------------|
| EVQPF003M    | 1.0 N           | 3.15 mm             | White            | 100000 cycles  |
| EVQPF004R    | 1.0 N           | 3.85 mm             | Red              | 100000 cycles  |
| EVQPF006K    | 1.0 N           | 5.85 mm             | Black            | 100000 cycles  |
| EVQPF008K    | 1.0 N           | 8.35 mm             | Black            | 100000 cycles  |
| EVQPF103M    | 1.3 N           | 3.15 mm             | White            | 100000 cycles  |
| EVQPF104R    | 1.3 N           | 3.85 mm             | Red              | 100000 cycles  |
| EVQPF106K    | 1.3 N           | 5.85 mm             | Black            | 100000 cycles  |
| EVQPF108K    | 1.3 N           | 8.35 mm             | Black            | 100000 cycles  |
| EVQPF203M    | 1.6 N           | 3.15 mm             | White            | 100000 cycles  |
| EVQPF204R    | 1.6 N           | 3.85 mm             | Red              | 100000 cycles  |
| EVQPF206K    | 1.6 N           | 5.85 mm             | Black            | 100000 cycles  |
| EVQPF208K    | 1.6 N           | 8.35 mm             | Black            | 100000 cycles  |
| EVQPF303M    | 2.6 N           | 3.15 mm             | White            | 50000 cycles   |
| EVQPF304R    | 2.6 N           | 3.85 mm             | Red              | 50000 cycles   |
| EVQPF306K    | 2.6 N           | 5.85 mm             | Black            | 50000 cycles   |
| EVQPF308K    | 2.6 N           | 8.35 mm             | Black            | 50000 cycles   |

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