

# KMS Series Microminiature SMT Side Actuated

## Features/Benefits

- Compact size
- Excellent tactile feel
- ESD protection
- Positioning pegs for stability
- RoHS compliant and compatible

## Typical Applications

- Mobile phones
- Medical handheld monitors
- Consumer electronics
- Telecommunication networks



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Tactile Switches

## Specification

FUNCTION: Momentary  
CONTACT ARRANGEMENT: SPST, N.O.  
TERMINALS: Gullwing type for SMT  
IP40 Sealed

## Mechanical

OVERLOAD: 20N  
TACTILE FEELING: 15% min. for the 2N version  
25% min for the 2.5N version

| Type       | Operating force<br>Newtons (grams) | Operating life<br>(operations) | Travel      |
|------------|------------------------------------|--------------------------------|-------------|
| KMS221G/GP | 2N (200) ± 0.5                     | 100 K cycles                   | 0,25 ± 0,15 |
| KMS223G/GP | 2N (200) ± 0.5                     | 100 K cycles                   | 0,25 ± 0,15 |
| KMS231G/GP | 3N (300) ± 0.6                     | 100 K cycles                   | 0,3 ± 0,15  |
| KMS233G/GP | 3N (300) ± 0.6                     | 100 K cycles                   | 0,3 ± 0,15  |

**Note:** Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## Packaging

Tape and reels in reels of 3,000 pieces.  
External diameter 330mm ± 2mm.

## Electrical

|                        | Silver            | Gold   |
|------------------------|-------------------|--------|
| MAXIMUM POWER:         | 1 VA              | 0.2 VA |
| MAXIMUM VOLTAGE:       | 32 VDC            | 32 VDC |
| MAXIMUM CURRENT DC:    | 50 mA             | 10 mA  |
| MINIMUM CURRENT DC:    | 1 mA              | 1 mA   |
| DIELECTRIC STRENGTH:   | 250 VDC           |        |
| CONTACT RESISTANCE:    | ≤100 mΩ           |        |
| INSULATION RESISTANCE: | 10 <sup>9</sup> Ω |        |
| BOUNCE TIME:           | ≤ 3 ms            |        |

## Environmental

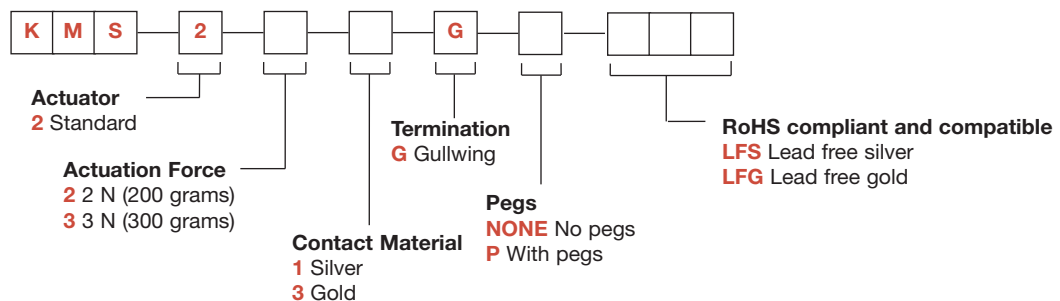
|                        | Silver        | Gold           |
|------------------------|---------------|----------------|
| OPERATING TEMPERATURE: | -40°C to 85°C | -40°C to 125°C |
| STORAGE TEMPERATURE:   | -55°C to 85°C | -55°C to 125°C |

## Process

Infrared reflow soldering in accordance with IEC 61760-1

## How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



# KMS Series

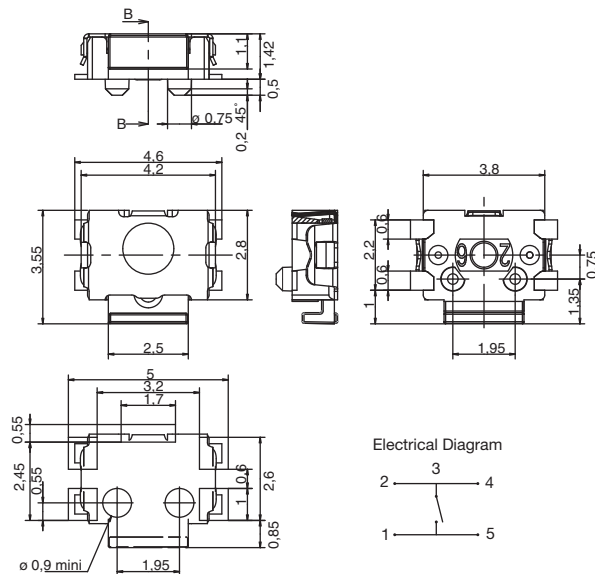
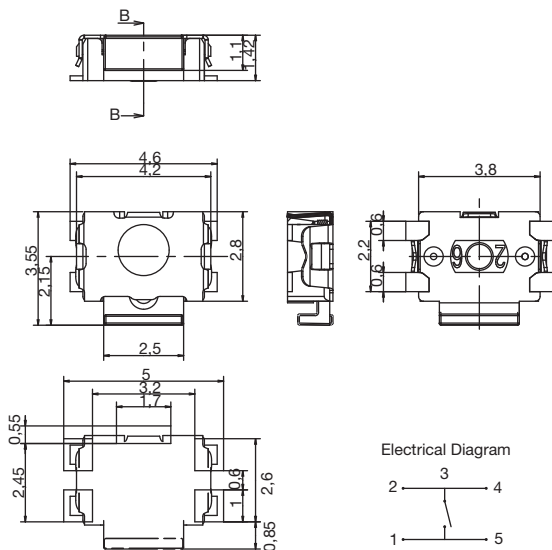
## Microminiature SMT Side Actuated

### KMS

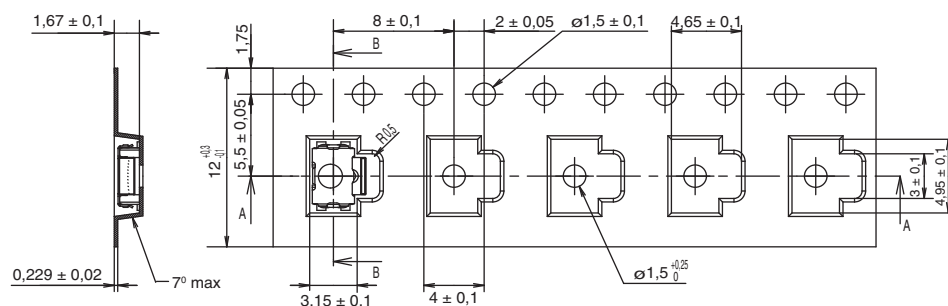
### KMS WITH PEGS

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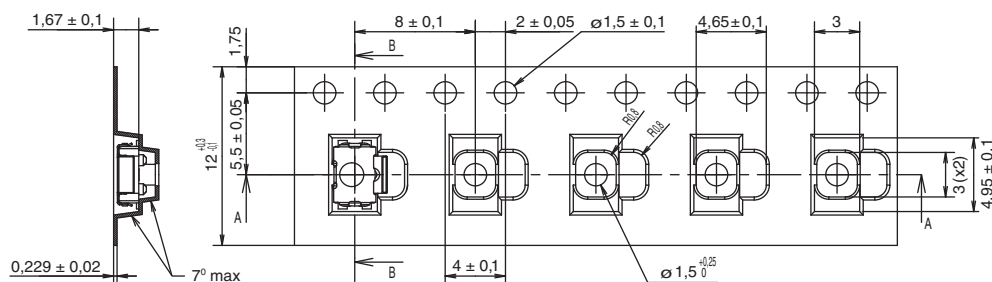
Tactile Switches



## TAPE & REEL



### WITH PEGS



→  
DIRECTION OF FEED



Dimensions are shown: mm  
Specifications and dimensions subject to change