

# MDS Series Micro Snap-acting Detect Switches



## Features/Benefits

- Snap-acting tactile feel
- Small package size
- Available in vertical or right angle PCB mount
- Long total travel of 2,9 mm
- RoHS compliant and compatible

## Typical Applications

- Detect the presence of a mechanical device
- Medical devices
- Consumer electronic devices
- ATCA applications

## Specifications

CONTACT RATING: 0.3A @ 6 VDC.  
 MECHANICAL & ELECTRICAL LIFE: 10,000 operations.  
 CONTACT RESISTANCE: 200 m Ω max.  
 OPERATING TEMPERATURE: -25°C to +70°C.  
 SOLDERABILITY: According to lead free solder profiles.  
 PACKAGING: Available in bulk or tape and reel.  
 OPERATING FORCE: 65g Max.  
 RELEASE FORCE: 3g Min.

## Materials

BASE: PA6T  
 COVER & ACTUATOR: PA46  
 MOVABLE CONTACT: Copper alloy, silver plated.  
 STATIONARY CONTACTS: Copper alloy, silver plated.  
 TERMINALS: Copper alloy, tin plated.

**NOTE:** MDS series is RoHS compliant, and compatible. See technical data section of this catalog for RoHS compliant and compatible definitions and specifications.

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

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages F-15 and F-18. For additional options not shown in catalog, consult Customer Service Center.

|                          |                                                                                                                                                                                                                                                                |          |          |  |  |  |  |  |  |  |  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--|--|--|--|--|--|--|--|
|                          | <b>M</b>                                                                                                                                                                                                                                                       | <b>D</b> | <b>S</b> |  |  |  |  |  |  |  |  |
| <b>Series</b>            | MDS SPDT                                                                                                                                                                                                                                                       |          |          |  |  |  |  |  |  |  |  |
| <b>Operating Force</b>   | 65 65 grams                                                                                                                                                                                                                                                    |          |          |  |  |  |  |  |  |  |  |
| <b>Electrical Rating</b> | 00A 0.3A @ 6 VDC                                                                                                                                                                                                                                               |          |          |  |  |  |  |  |  |  |  |
| <b>Actuator</b>          | L02 Standard lever                                                                                                                                                                                                                                             |          |          |  |  |  |  |  |  |  |  |
| <b>Termination Style</b> | PS PC Thru-hole, Short<br>PL PC Thru-hole, Long<br>RS PC Thru-hole, Short, Right bend<br>RL PC Thru-hole, Long, Right bend<br>LS PC Thru-hole, Short, Left bend<br>LL PC Thru-hole, Long, Left bend<br>SL SMT, Left<br>SR SMT, Right<br>WC Wire Lead, 6 inches |          |          |  |  |  |  |  |  |  |  |



**Detect**



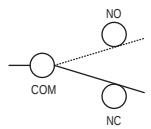
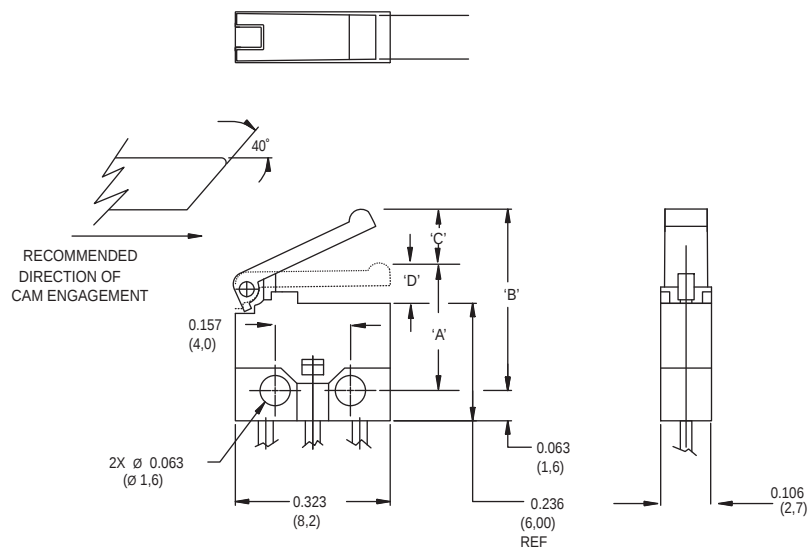
Third Angle  
Projection

Dimensions are shown: Inch (mm)  
 Specifications and dimensions subject to change

# MDS Series

## Micro Snap-acting Detect Switches

SERIES **MDS**



CONTACT CONFIGURATION

| OPERATING CHARACTERISTICS |         |                                 |
|---------------------------|---------|---------------------------------|
| OPERATING POSITION        | DIM 'A' | .276+ .015/- .02 (7.0+0.4/-0.5) |
| FREE POSITION             | DIM 'B' | .378(9.6) MAX                   |
| PRETRAVEL                 | DIM 'C' | .098(2.5) MAX                   |
| OVER TRAVEL               | DIM 'D' | .006(0.15) MIN                  |
| CONTACT RATING            |         | 0.3A 6V DC                      |
| OPERATING FORCE           |         | 65 gf MAX.                      |

### OPERATING FORCE

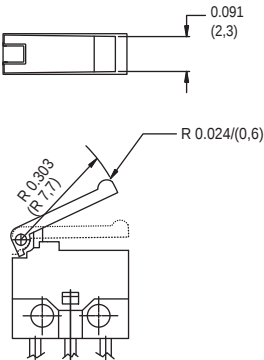
| OPTION CODE | OPERATING FORCE |
|-------------|-----------------|
| <b>65</b>   | 65 grams max.   |

### ELECTRICAL RATING

| OPTION CODE | ELECTRICAL RATING |
|-------------|-------------------|
| <b>00A</b>  | 0.3A @ 6 V DC     |

### ACTUATOR

**L02** STANDARD LEVER



Third Angle  
Projection

Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

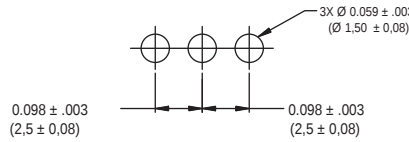
**C&K**

# MDS Series Micro Snap-acting Detect Switches

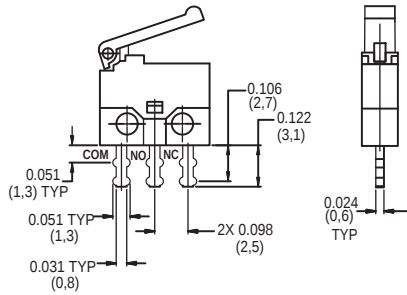
## TERMINATIONS



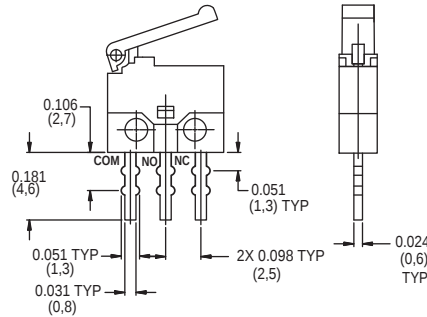
### PCB Mounting Pattern



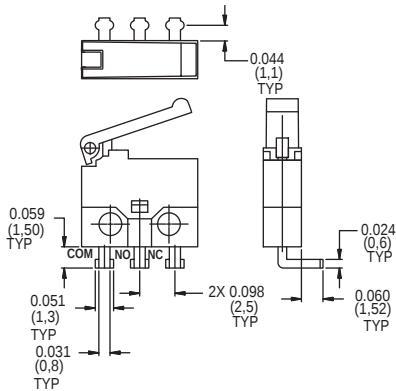
**PS** PC THRU-HOLE, SHORT STRAIGHT



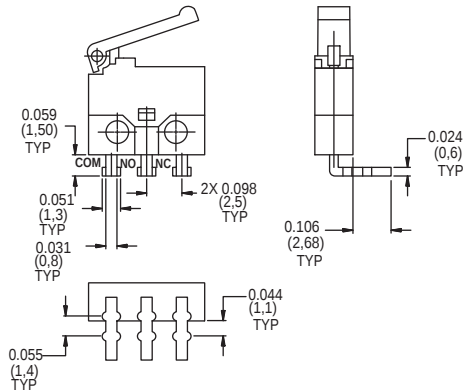
**PL** PC THRU-HOLE, LONG STRAIGHT



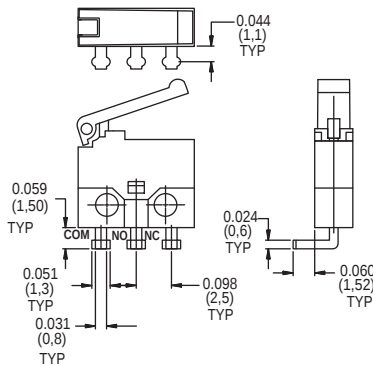
**RS** PC THRU-HOLE, SHORT RIGHT BEND



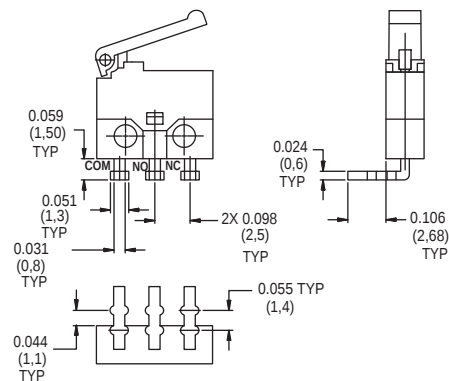
**RL** PC THRU-HOLE, LONG SHORT BEND



**LS** PC THRU-HOLE, SHORT LEFT BEND



**LL** PC THRU-HOLE, LONG LEFT BEND



**F**

**Detect**

# MDS Series Micro Snap-acting Detect Switches

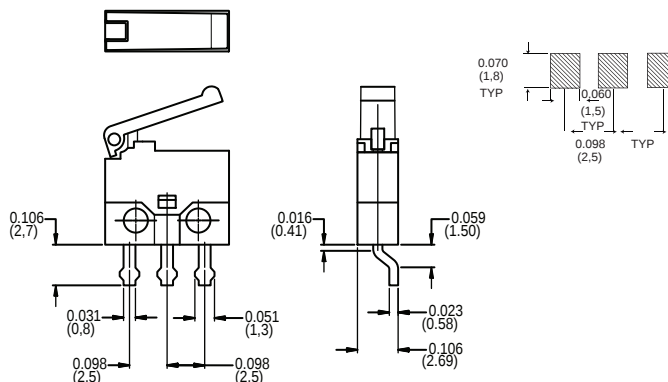
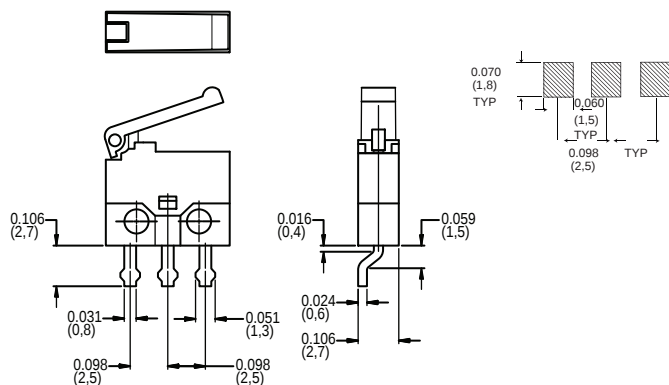
## TERMINATIONS

**SL** SMT, LEFT MOUNT

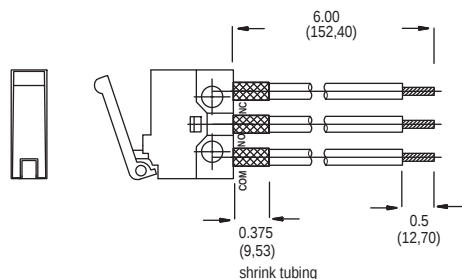
**SMT Mounting Pattern**

**SR** SMT, RIGHT MOUNT

**SMT Mounting Pattern**



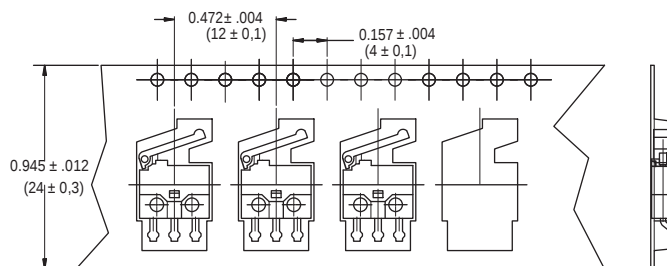
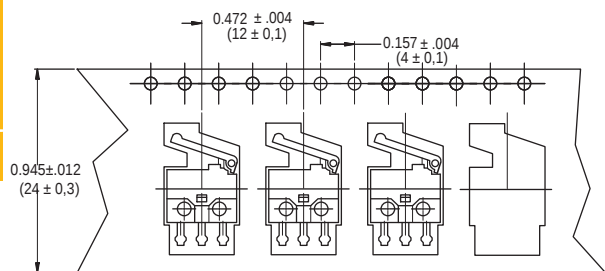
**WC** WIRE LEADS



## PACKAGING

**SL** SMT, LEFT MOUNT

**SR** SMT, RIGHT MOUNT



PULLING-OUT DIRECTION OF THE TAPE

PULLING-OUT DIRECTION OF THE TAPE  
SCALE 3:1

Note: SL and SR options supplied in carrier tape meeting the EIA-481-2 standard for 24mm tape. Packaging quantity: 1,600 pieces per reel.



F

Detect

**C&K**



Third Angle  
Projection

Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change