

MDS Series

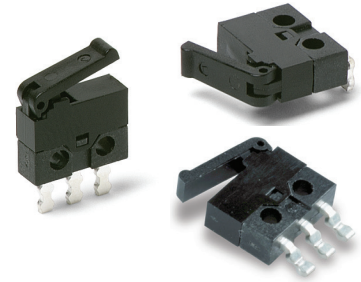
Micro Snap-acting Detect Switches

Features/Benefits

- Snap-acting tactile feel
- Small package size
- Available in vertical or right angle PCB mount
- RoHS compliant and compatible

Typical Applications

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



Specifications

CONTACT RATING: 300mA @ 30 VDC.
 MECHANICAL & ELECTRICAL LIFE: 30,000 operations.
 CONTACT RESISTANCE: 100 m Ω max. initial
 OPERATING TEMPERATURE: -25°C to +70°C.
 SOLDERABILITY: According to lead free solder profiles.
 PACKAGING: Available in bulk or tape and reel.
 OPERATING FORCE: 50g Max.
 RELEASE FORCE: 3g Min.

Materials

BASE: PA9T
 COVER & ACTUATOR: PA9T
 MOVABLE CONTACT: Copper alloy, silver plated.
 STATIONARY CONTACTS: Copper alloy, silver plated.
 TERMINALS: Copper alloy, silver 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 J-82 through J-88. For additional options not shown in catalog, consult Customer Service Center.

	M	D	S							
Series	MDS SPDT									
Operating Force	65 50 grams									
Electrical Rating	00A 300mA @ 30 VDC									
Actuator	L02 Standard lever L03 Higher OP lever									
Termination Style	PS PC Thru-hole, Short PL PC Thru-hole, Long RS PC Thru-hole, Short, Right bend RL PC Thru-hole, Long, Right bend LS PC Thru-hole, Short, Left bend LL PC Thru-hole, Long, Left bend SL SMT, Left SR SMT, Right SV SMT, Vertical CL SMT, Left bracket with pins CR SMT, Right bracket with pins BL SMT, Left bracket no pins BR SMT, Right bracket no pins WC Wire lead, 6 inches									

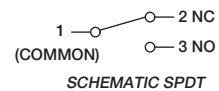
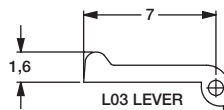
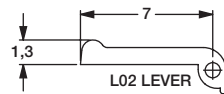
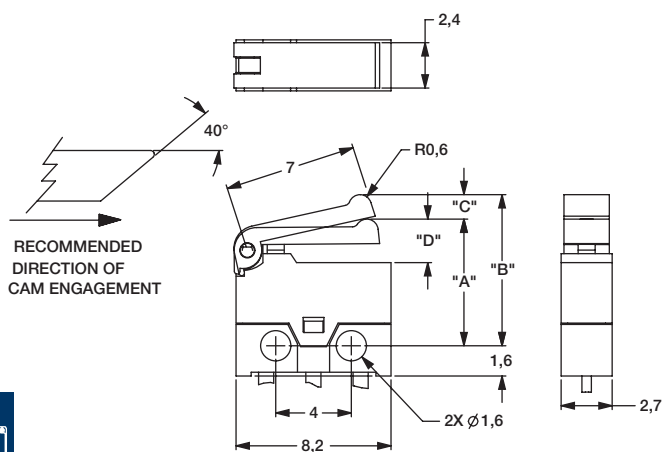


Snap-acting

MDS Series

Micro Snap-acting Detect Switches

SERIES **MDS** ■ ■ ■ ■ ■ ■ ■ ■ ■ ■



OPERATING CHARACTERISTICS			
		LEVER L02	LEVER L03
OPERATING POSITION	DIM 'A'	6.7 ± 0.5	7.0 ± 0.5
FREE POSITION	DIM 'B'	8 MAX	8.5 MAX
PRETRAVEL	DIM 'C'	1.8 MAX	1.8 MAX
OVER TRAVEL	DIM 'D'	0.3 MIN	0.3 MIN
CONTACT RATING		0.3A @ 30 VDC	0.3A @ 30VDC
OPERATING FORCE		50 GRAMS F. MAX	50 GRAMS F. MAX

OPERATING FORCE

OPTION CODE	OPERATING FORCE
65	50 grams max.

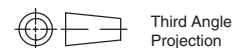
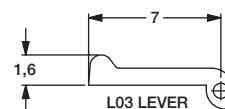
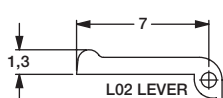
ELECTRICAL RATING

OPTION CODE	ELECTRICAL RATING
00A	300mA @ 30 V DC

ACTUATOR

L02 STANDARD LEVER

L03 HIGHER OP LEVER

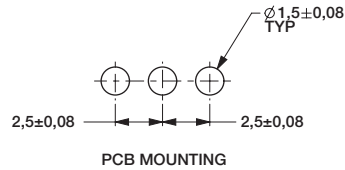


Dimensions are shown: mm
Specifications and dimensions subject to change

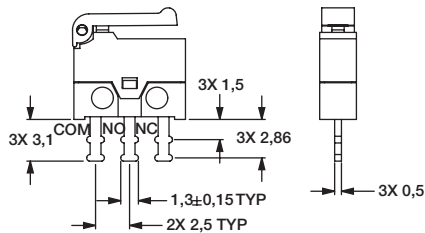
MDS Series Micro Snap-acting Detect Switches

TERMINATIONS

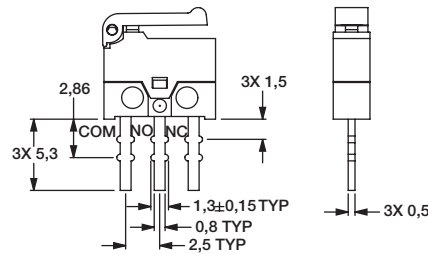
PCB Mounting Pattern



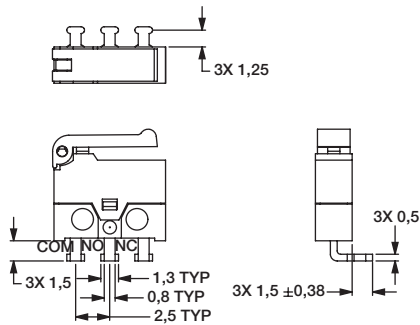
PS PC THRU-HOLE, SHORT STRAIGHT



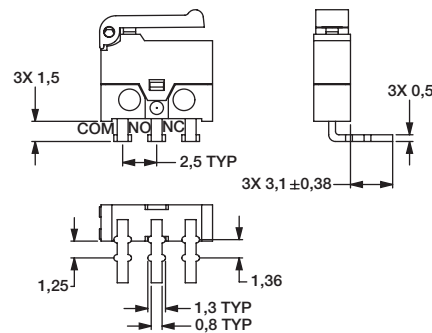
PL PC THRU-HOLE, LONG STRAIGHT



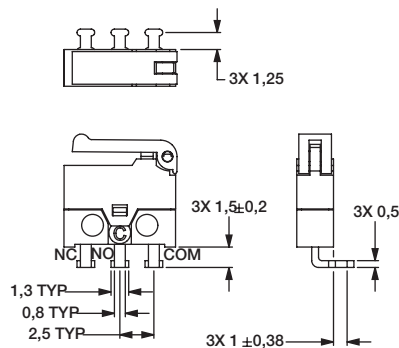
RS PC THRU-HOLE, SHORT RIGHT BEND



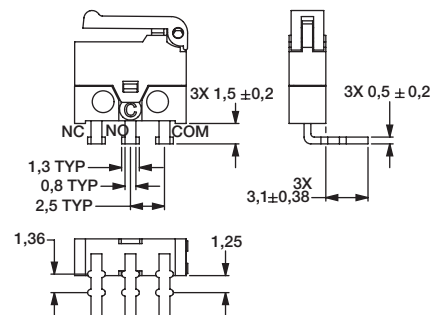
RL PC THRU-HOLE, LONG RIGHT BEND



LS PC THRU-HOLE, SHORT LEFT BEND



LL PC THRU-HOLE, LONG LEFT BEND



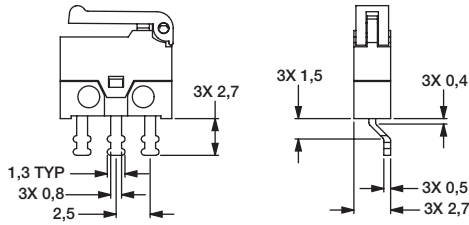
Snap-acting

MDS Series

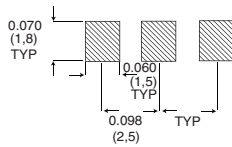
Micro Snap-acting Detect Switches

TERMINATIONS

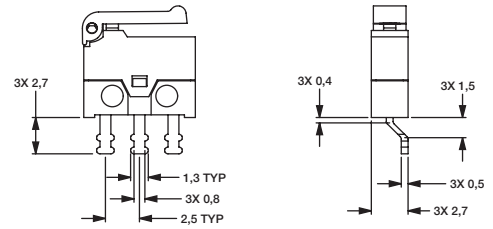
SL SMT, LEFT MOUNT



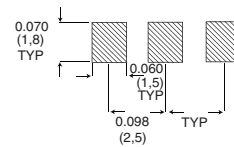
SMT Mounting Pattern



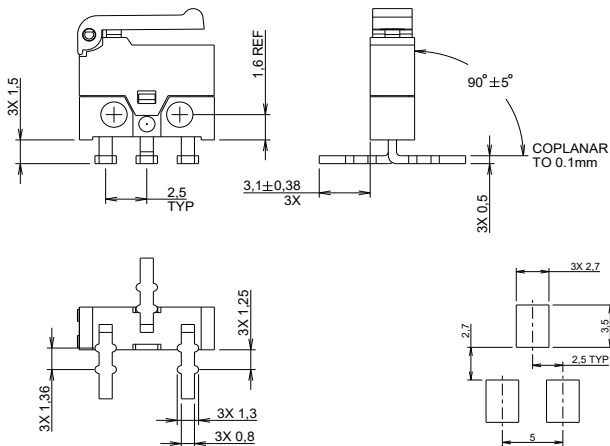
SR SMT, RIGHT MOUNT



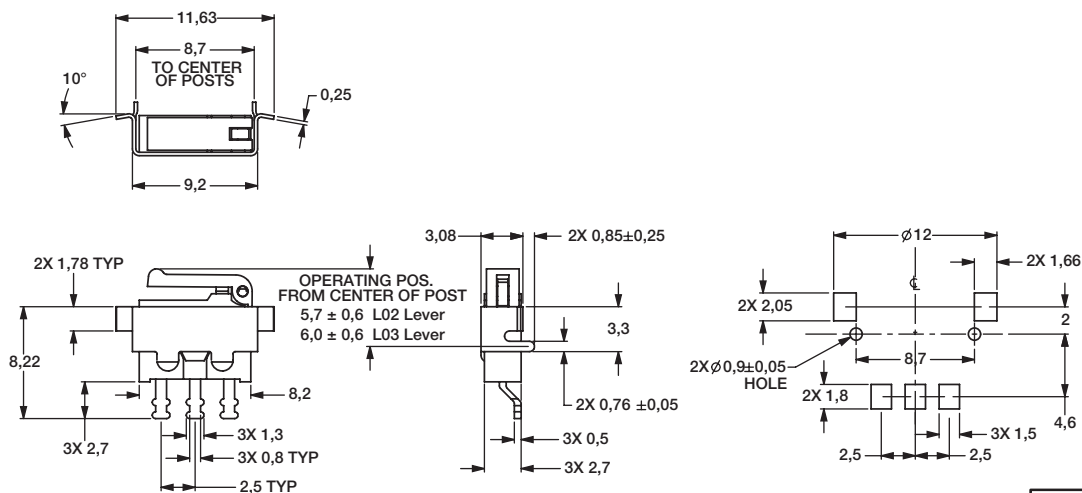
SMT Mounting Pattern



SV SMT, VERTICAL



CL SMT, LEFT BRACKET WITH PINS



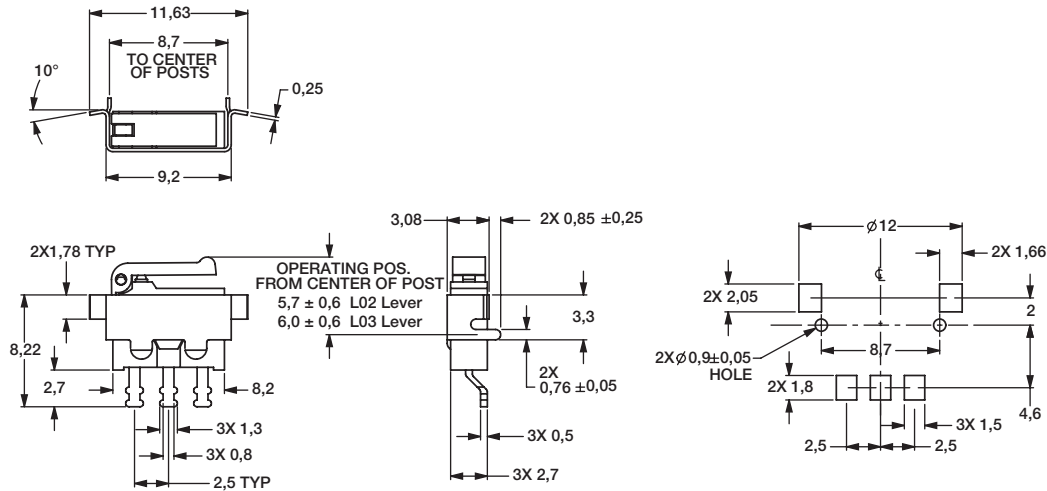
Third Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

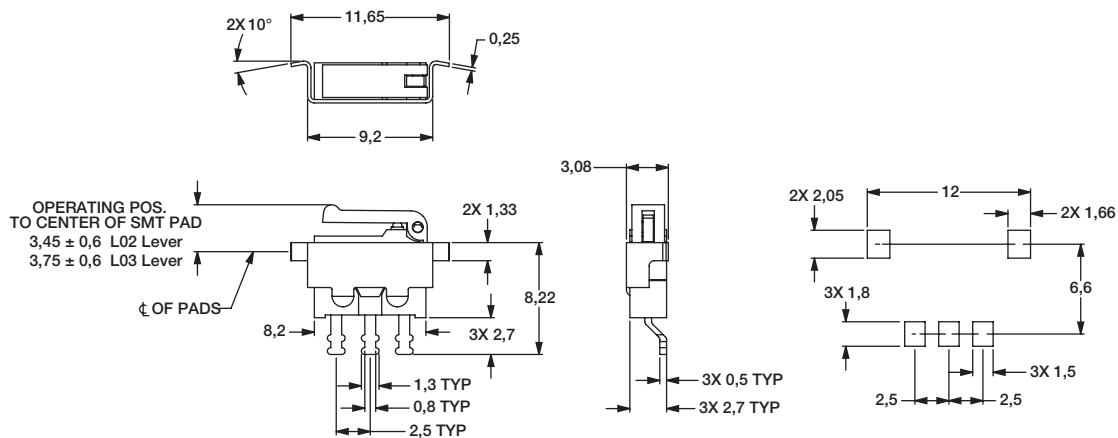
MDS Series Micro Snap-acting Detect Switches

TERMINATIONS

CR SMT, RIGHT BRACKET WITH PINS



BL SMT, LEFT BRACKET NO PINS

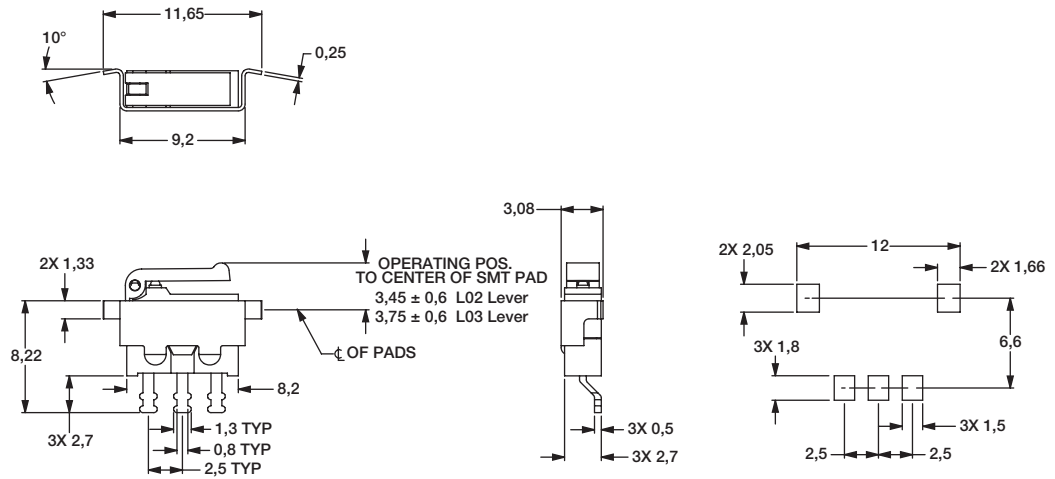


Snap-acting

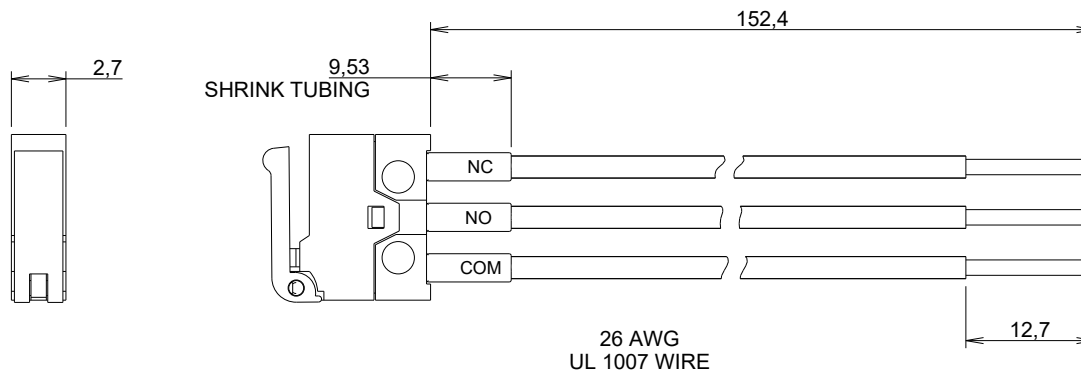
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TERMINATIONS

BR SMT, RIGHT BRACKET NO PINS



WC WIRE LEAD, 6 INCHES



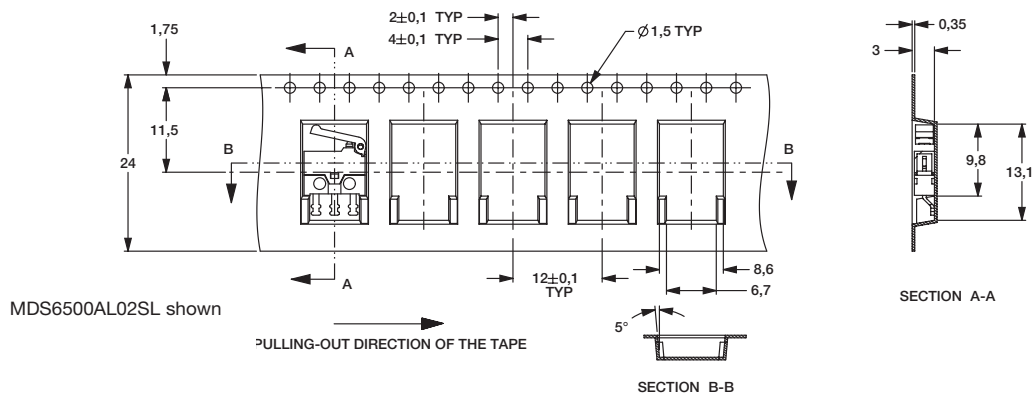
Snap-acting

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TAPE AND REEL

SL SMT, LEFT MOUNT

SR SMT, RIGHT MOUNT

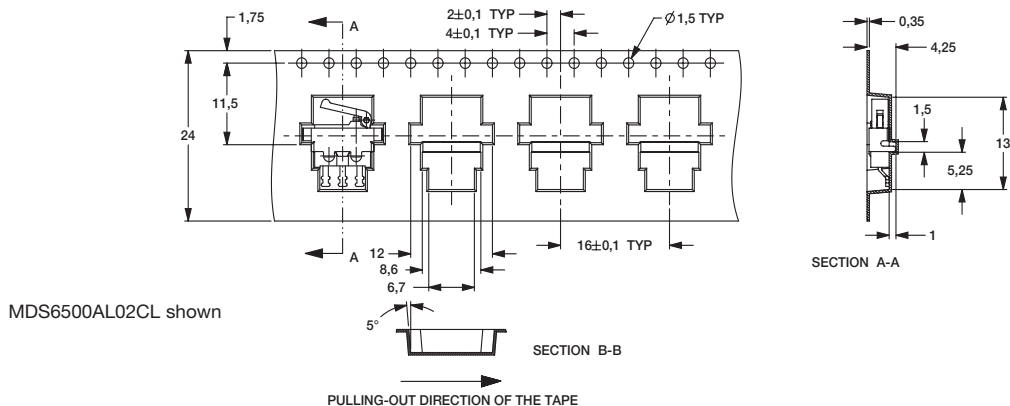


CL SMT, LEFT MOUNT

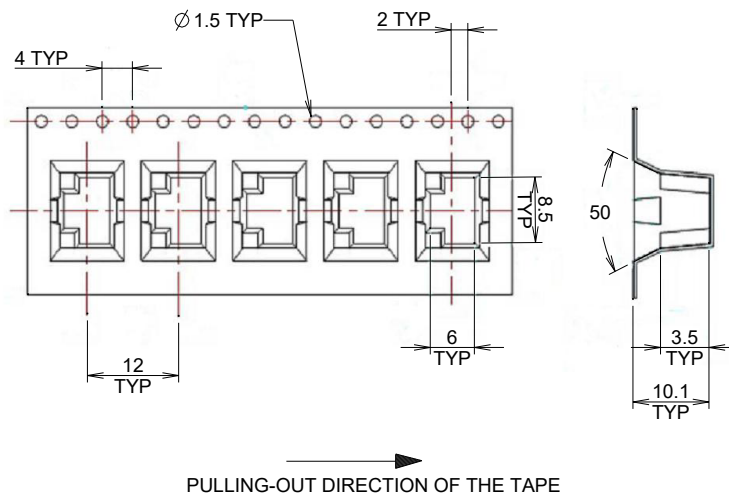
CR SMT, RIGHT MOUNT

BL SMT, LEFT MOUNT

BR SMT, RIGHT MOUNT

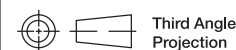


SV SMT, VERTICAL MOUNT



Supplied in carrier tape meeting the EIA-481-2 standard for 24mm tape.

Packaging quantity: SL and SR: 1,600 pieces per reel
CL, CR, BL and BR: 1,000 pieces per reel
SV: 400 pieces per reel
WC: consult factory



Dimensions are shown: mm
Specifications and dimensions subject to change

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

[MDS6500AL02SL](#) [MDS6500AL02SR](#) [MDS6500AL02PL](#) [MDS6500AL02PS](#) [MDS6500AL02LS](#) [MDS6500AL02RL](#)
[MDS6500AL02LL](#) [MDS6500AL02RS](#) [MDS6500AL03PS](#) [MDS6500AL02CL](#) [MDS6500AL03CL](#) [MDS6500AL02CR](#)
[MDS6500AL02BR](#) [MDS6500AL02BL](#)