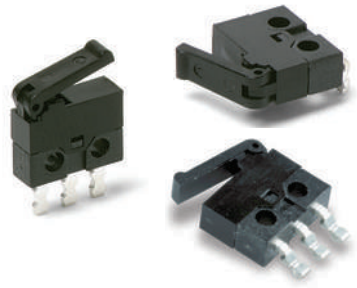
MDS Series
Micro Snap-acting Detect Switches

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. inital
OPERATING TEMPERATURE: –25ºC to +70ºC.
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

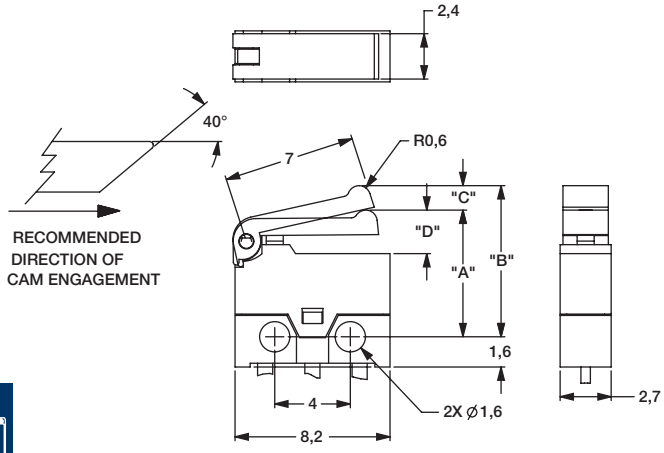
Electrical Rating
00A 300mA @ 30 VDC

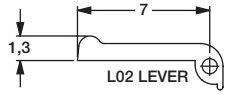
Actuator
L02 Standard lever
L03 Higher OP lever

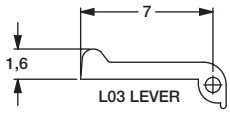
Termination Style
PS PC Thru-hole, Short
PL PC Thru-hole, Long
RS PC Thru-hole, Short, Right bend
RL PC Thru-hole, Long, Right bend
LS PC Thru-hole, Short, Left bend
LL PC Thru-hole, Long, Left bend
SL SMT, Left
SR SMT, Right
SV SMT, Vertical
CL SMT, Left bracket with pins
CR SMT, Right bracket with pins
BL SMT, Left bracket no pins
BR SMT, Right bracket no pins
WC Wire lead, 6 inches

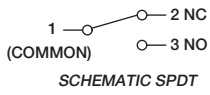
MDS Series
Micro Snap-acting Detect Switches

SERIES MDS









SCHEMATIC SPDT

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

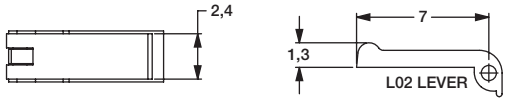
OPTION CODE	OPERATING FORCE
65	50 grams max.

ELECTRICAL RATING

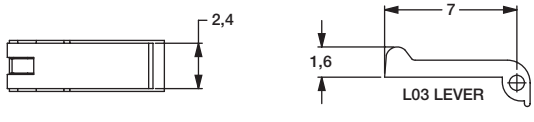
OPTION CODE	ELECTRICAL RATING
00A	300mA @ 30 V DC

ACTUATOR

L02 STANDARD LEVER



L03 HIGHER OP LEVER

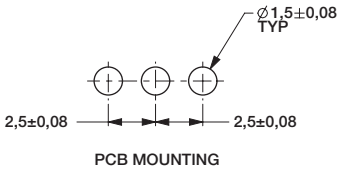


Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

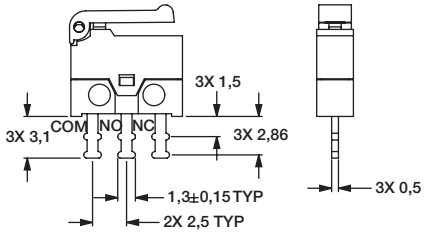
TERMINATIONS

PCB Mounting Pattern

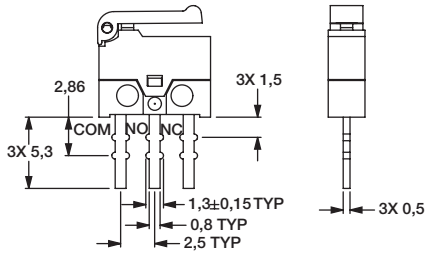


PCB MOUNTING

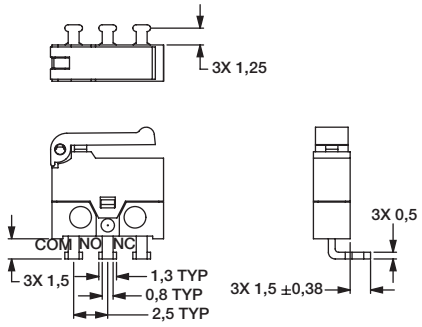
PS PC THRU-HOLE, SHORT STRAIGHT



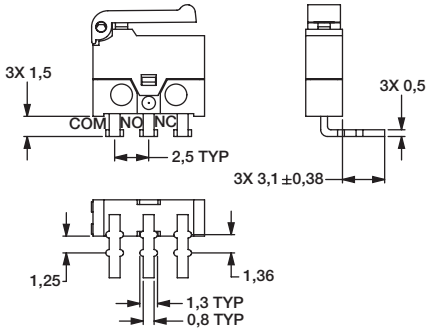
PL PC THRU-HOLE, LONG STRAIGHT



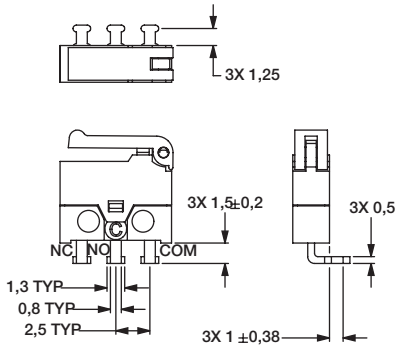
RS PC THRU-HOLE, SHORT RIGHT BEND



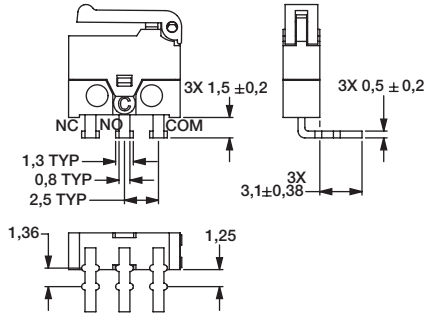
RL PC THRU-HOLE, LONG RIGHT BEND



LS PC THRU-HOLE, SHORT LEFT BEND



LL PC THRU-HOLE, LONG LEFT BEND

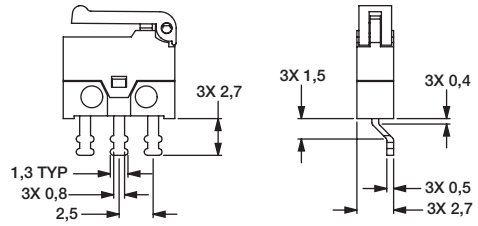


Third Angle Projection

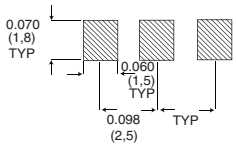
Dimensions are shown: mm
Specifications and dimensions subject to change

TERMINATIONS

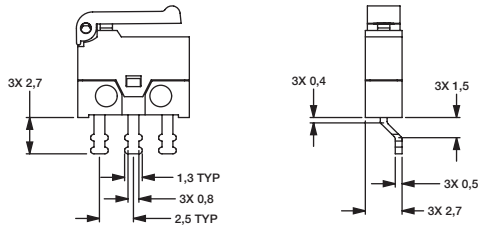
SL SMT, LEFT MOUNT



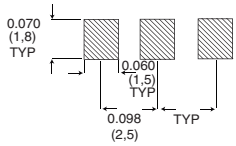
SMT Mounting Pattern



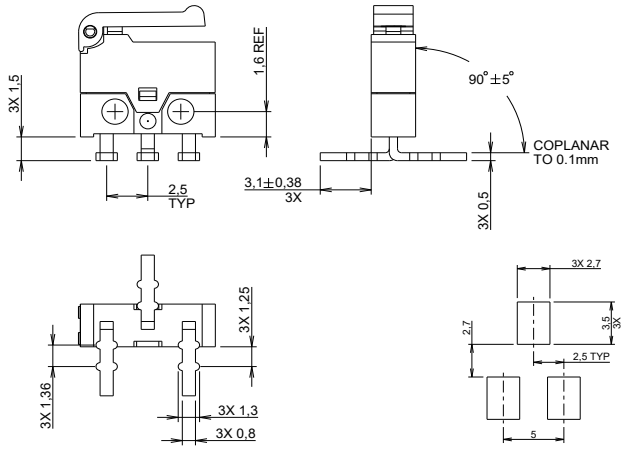
SR SMT, RIGHT MOUNT



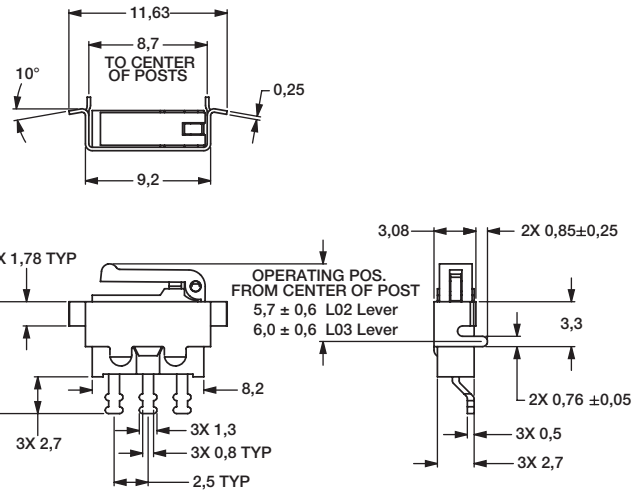
SMT Mounting Pattern

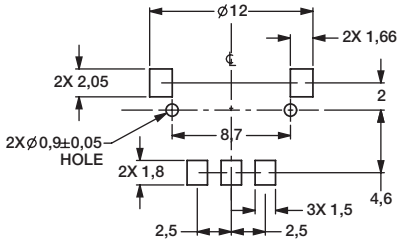


SV SMT, VERTICAL



CL SMT, LEFT BRACKET WITH PINS



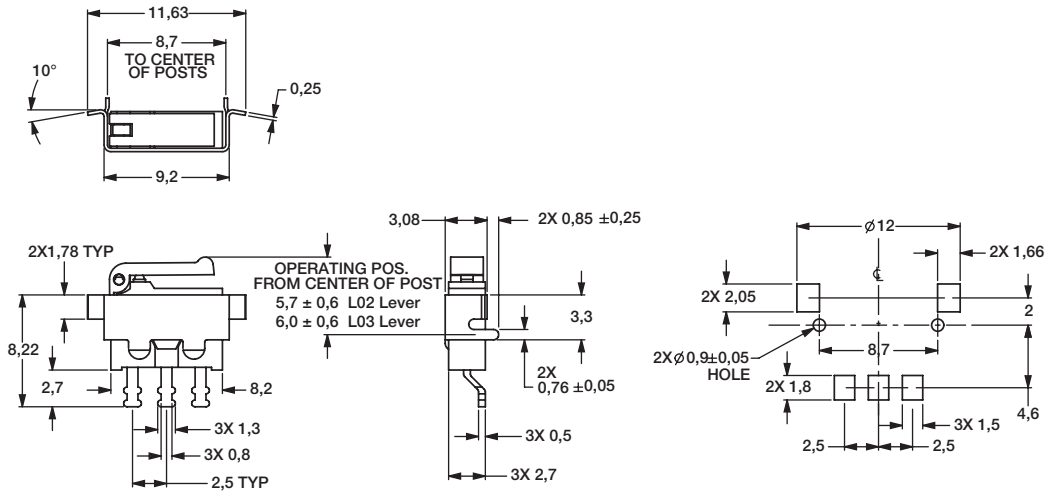


Third Angle Projection

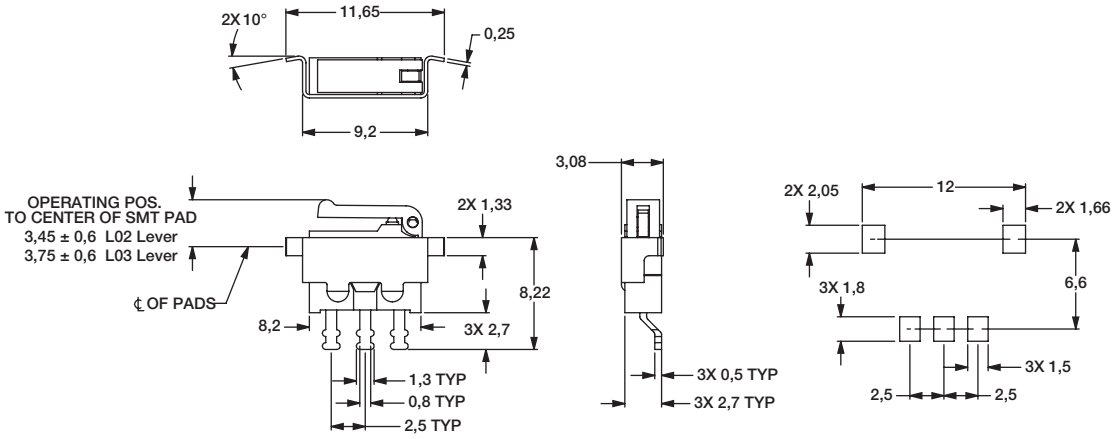
Dimensions are shown: mm
Specifications and dimensions subject to change

TERMINATIONS

CR SMT, RIGHT BRACKET WITH PINS



BL SMT, LEFT BRACKET NO PINS



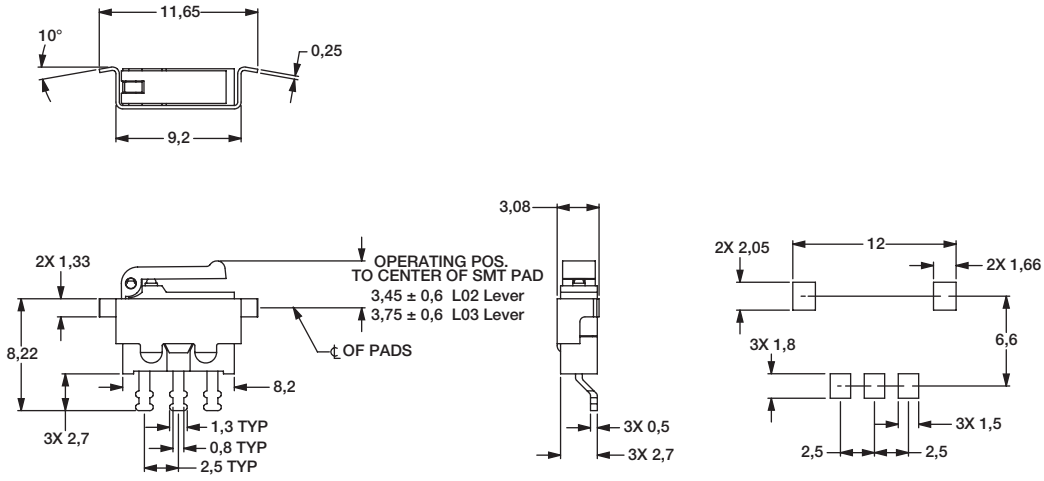
J Snap-acting

Third Angle Projection

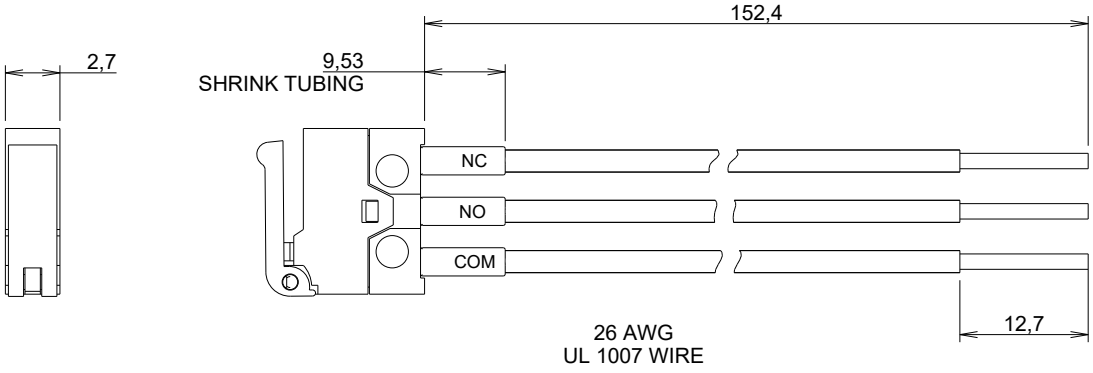
Dimensions are shown: mm
Specifications and dimensions subject to change

TERMINATIONS

BR SMT, RIGHT BRACKET NO PINS



WC WIRE LEAD, 6 INCHES



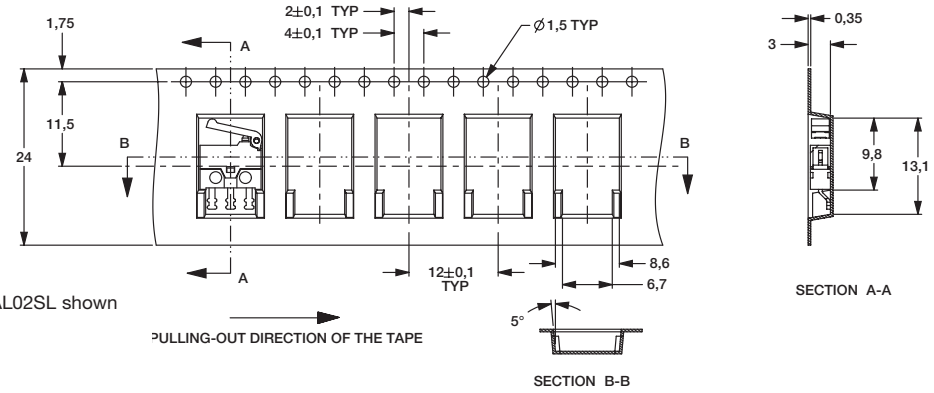
Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

TAPE AND REEL

SL SMT, LEFT MOUNT

SR SMT, RIGHT MOUNT



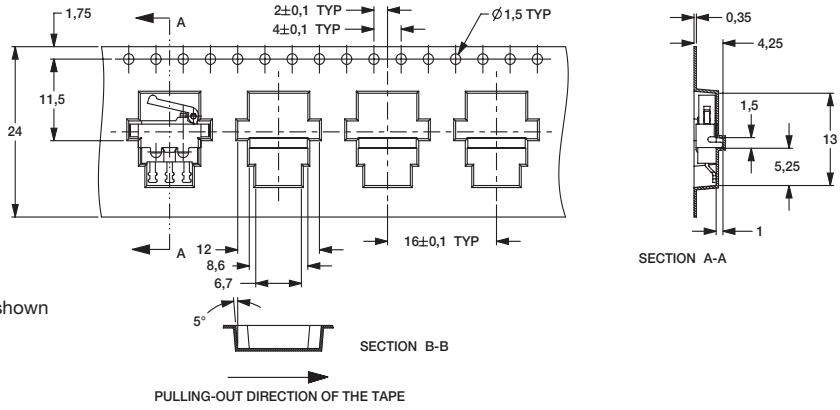
MDS6500AL02SL shown

CL SMT, LEFT MOUNT

CR SMT, RIGHT MOUNT

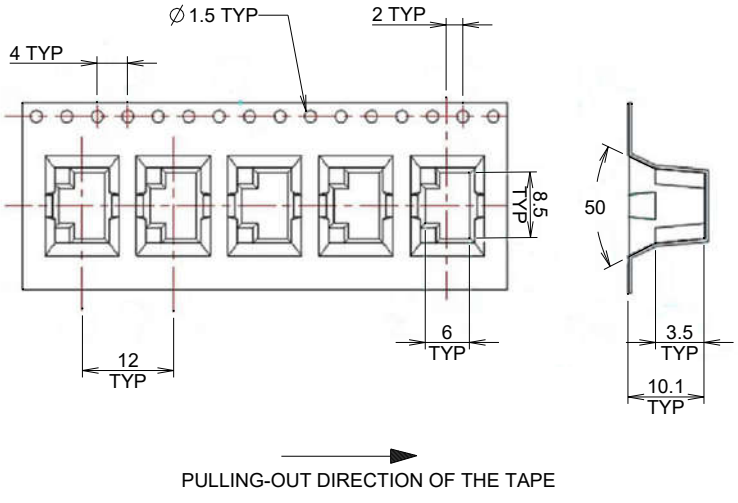
BL SMT, LEFT MOUNT

BR SMT, RIGHT MOUNT



MDS6500AL02CL shown

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

Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change