

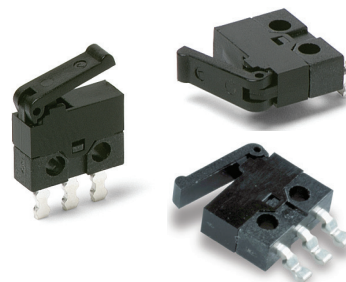
MDS Series Micro Snap-acting Detect Switches

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

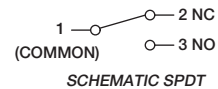
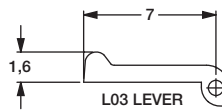
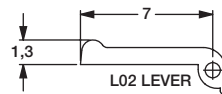
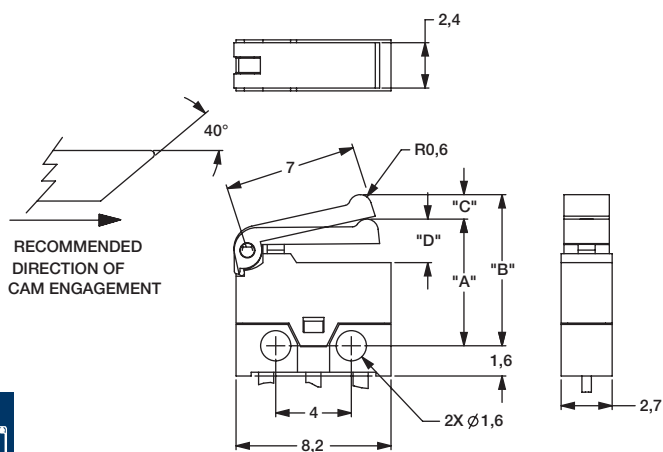
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-66 through J-70. For additional options not shown in catalog, consult Customer Service Center.

	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										
CL	SMT, Left bracket with pins										
CR	SMT, Right bracket with pins										
BL	SMT, Left bracket no pins										
BR	SMT, Right bracket no pins										

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.

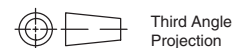
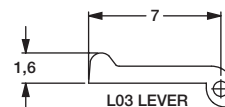
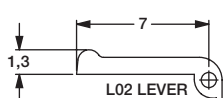
ELECTRICAL RATING

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

ACTUATOR

L02 STANDARD LEVER

L03 HIGHER OP LEVER

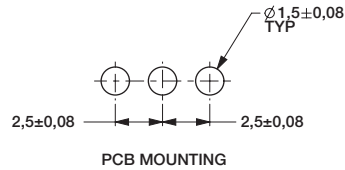


Dimensions are shown: mm
Specifications and dimensions subject to change

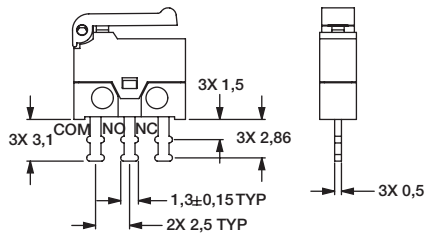
MDS Series Micro Snap-acting Detect Switches

TERMINATIONS

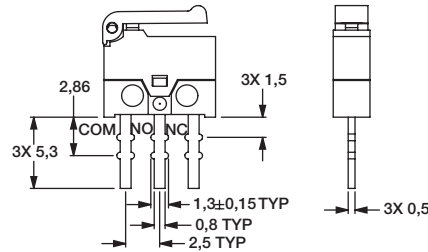
PCB Mounting Pattern



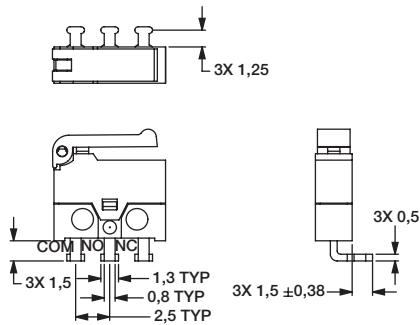
PS PC THRU-HOLE, SHORT STRAIGHT



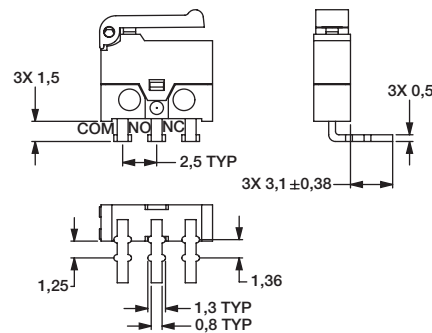
PL PC THRU-HOLE, LONG STRAIGHT



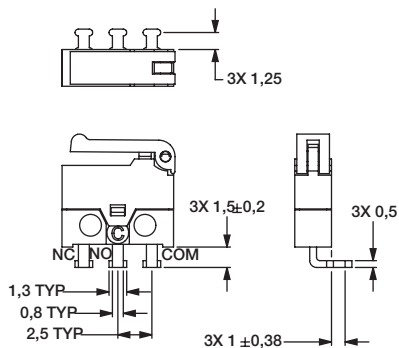
RS PC THRU-HOLE, SHORT RIGHT BEND



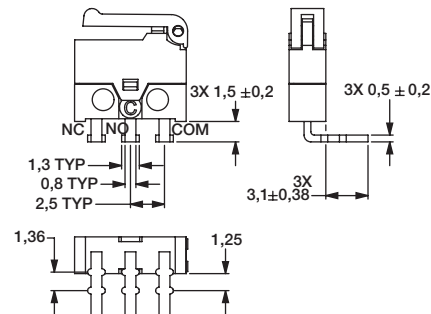
RL PC THRU-HOLE, LONG RIGHT BEND



LS PC THRU-HOLE, SHORT LEFT BEND



LL PC THRU-HOLE, LONG LEFT BEND

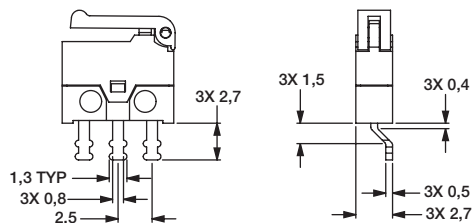


Snap-acting

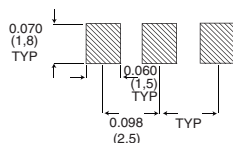
MDS Series Micro Snap-acting Detect Switches

TERMINATIONS

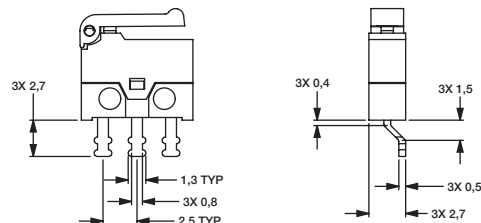
SL SMT, LEFT MOUNT



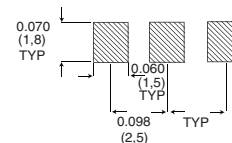
SMT Mounting Pattern



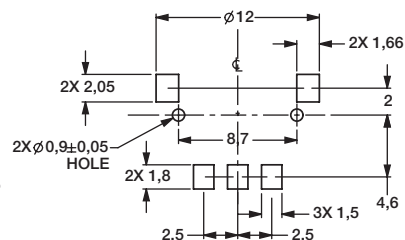
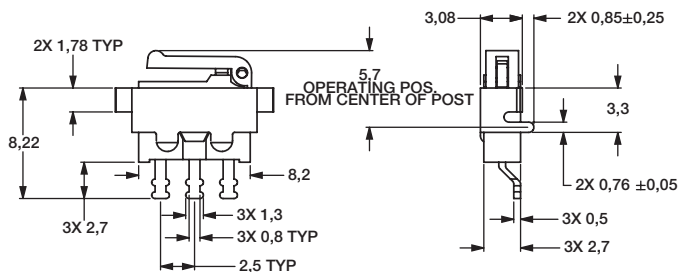
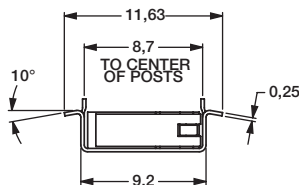
SR SMT, RIGHT MOUNT



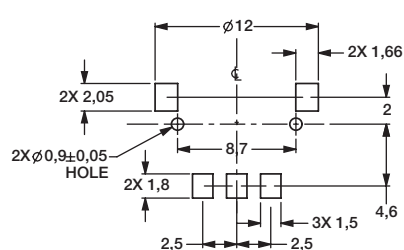
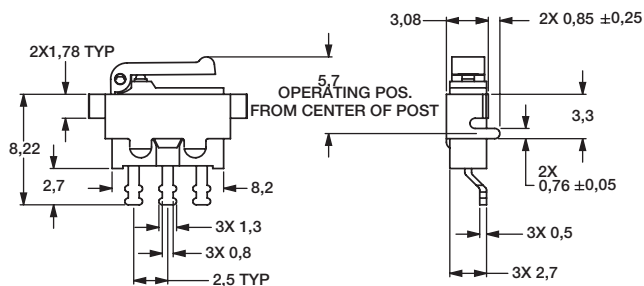
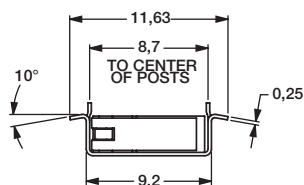
SMT Mounting Pattern



CL SMT, LEFT BRACKET WITH PINS



CR SMT, RIGHT BRACKET WITH PINS



Dimensions are shown: mm

Specifications and dimensions subject to change

TERMINATIONS

The drawing shows the mechanical specifications of the 100-pin connector. The top view (left) shows a rectangular footprint with a width of 11,65 mm and a central pin pitch of 9,2 mm. The side view (right) shows a height of 8,22 mm and a pin pitch of 2,7 mm (3X). The drawing also indicates a 2X 10° chamfer on the top edges, a 0,25 mm gap on the right side, and a 3,45 mm distance from the operating position to the center of the SMT pad. The pin pitch is 1,3 mm typical, 0,8 mm typical, and 2,5 mm typical.



J

Snap-acting

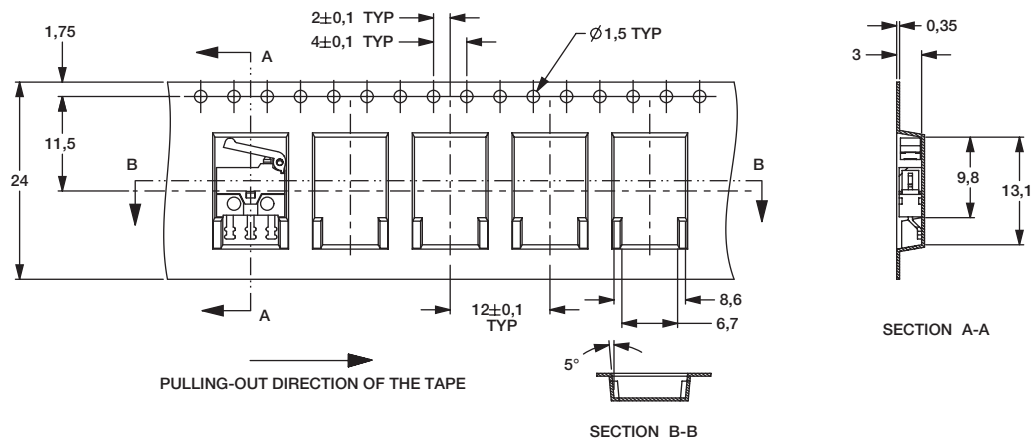


MDS Series Micro Snap-acting Detect Switches

TAPE AND REEL

SL SMT, LEFT MOUNT

SR SMT, RIGHT MOUNT

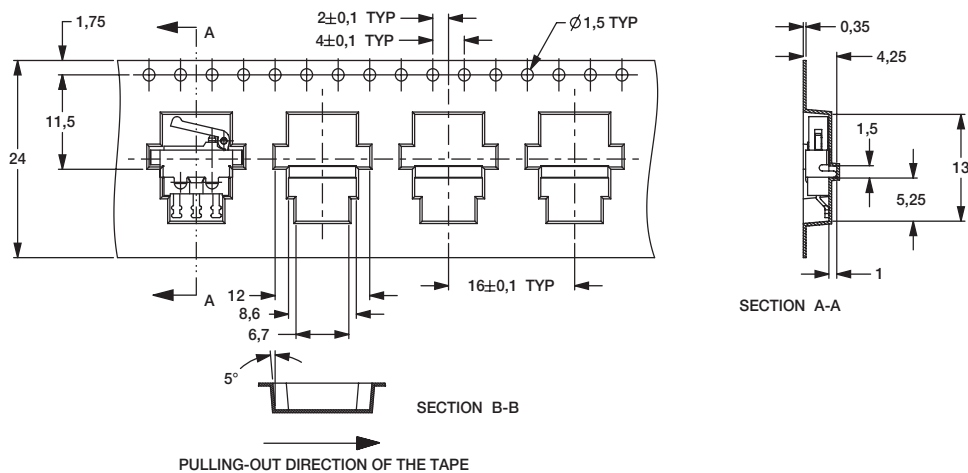


CL SMT, LEFT MOUNT

CR SMT, RIGHT MOUNT

BL SMT, LEFT MOUNT

BR SMT, RIGHT MOUNT



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