

MDB series

Micro limit snap action switch

Distinctive features and specifications



- ☐ Movement differential $\leq 0.2\text{mm}$.
- ☐ Available in normally open, normally closed and change-over functions.
- ☐ Solder lug and PC terminals available.

ELECTRICAL SPECIFICATIONS

- AC rating: 0.1A ... 3A 125VAC
- Electrical life: 100,000 cycles min. (>1A: 10,000 cycles min.)

MATERIALS

- Case: PBT (UL94V-0)
- Actuator: PBT (UL94V-0)
- Contact spring: AgNi
- Terminals: CuZn Ag plated
- Contacts: AgNi

GENERAL SPECIFICATIONS

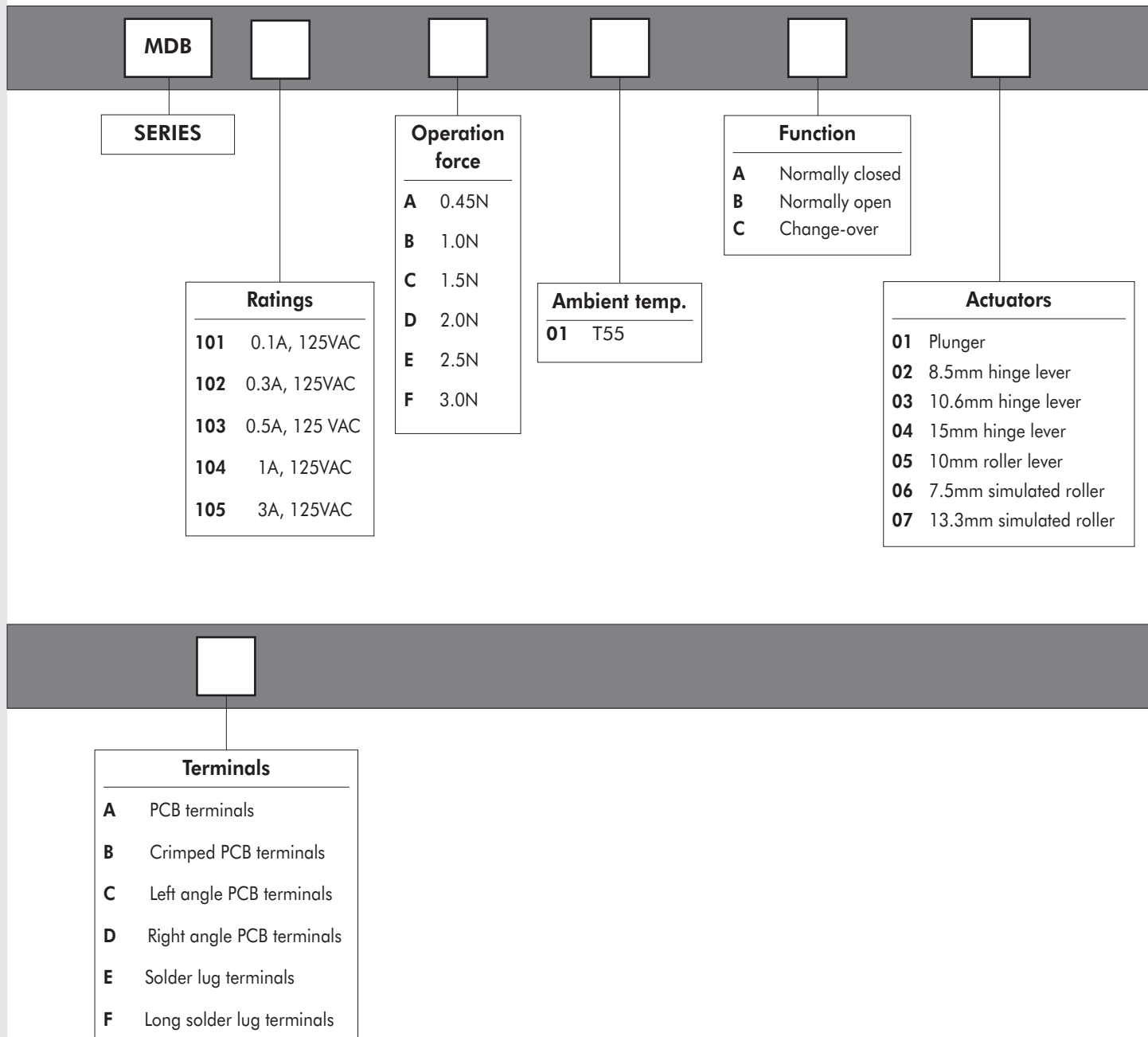
- Operating temperature: 0°C to $+55^{\circ}\text{C}$
- Pretravel: $\leq 0.5\text{mm}$
- Overtravel: 0.2mm min.
- Movement differential: $\leq 0.2\text{mm}$
- Operating position: $5.5 \pm 0.3\text{mm}$
- Contact gap: $< 3\text{mm}$

AGENCY APPROVAL

cULUS
(submitted)

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ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- options in the same order as in above chart

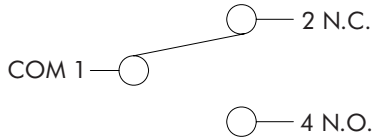
Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.



NOTICE : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

MDB series

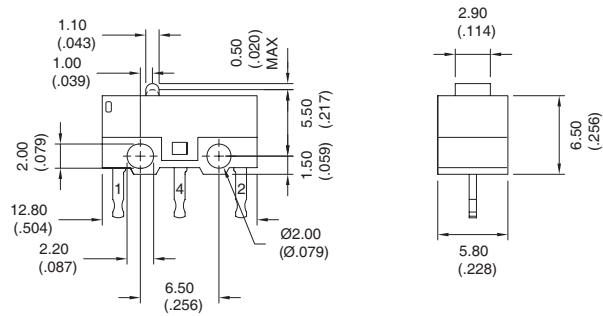
Micro limit snap action switch



Change-over with plunger



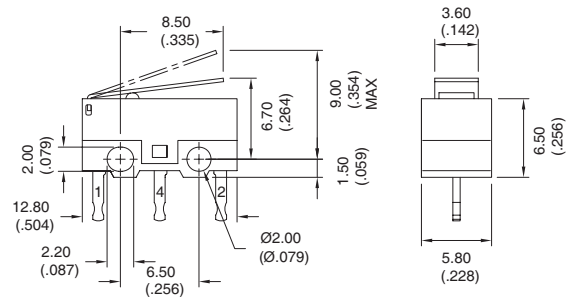
MDB 01C01



Change-over with 8.5mm hinge lever



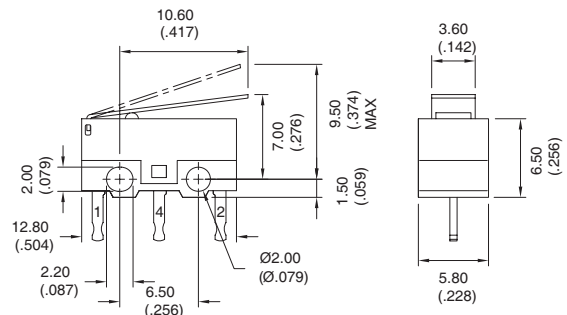
MDB 01C02



Change-over with 10.6mm hinge lever



MDB 01C03



Micro limit snap action switch

Technical drawing of a mechanical part showing three views: a side view, a top view, and a front view. The side view shows a base with a central hole of diameter 2.00 (0.079) and a top flange with a diameter of 10.00 (.394). The top view shows a rectangular base with a central hole of diameter 2.00 (0.079) and a top flange with a diameter of 10.00 (.394). The front view shows a base with a central hole of diameter 2.00 (0.079) and a top flange with a diameter of 10.00 (.394). Dimensions are given in inches and millimeters.

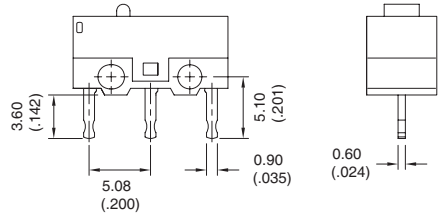
[illegible]

MDB series

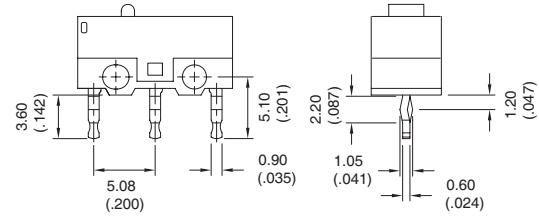
Micro limit snap action switch

Terminal options

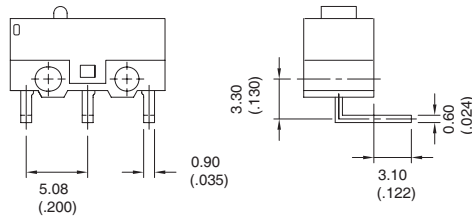
A PCB terminals



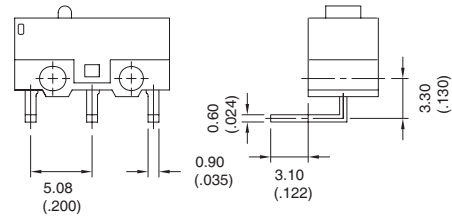
B Crimped PCB terminals



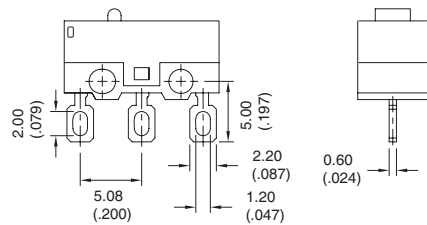
C Left bend PCB terminals



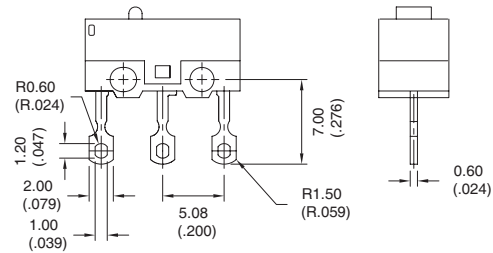
D Right bend PCB terminals



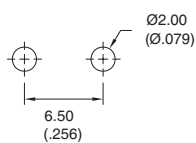
E Solder lug terminals



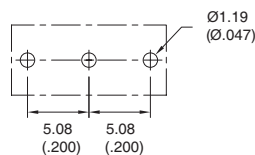
F Long solder lug terminals



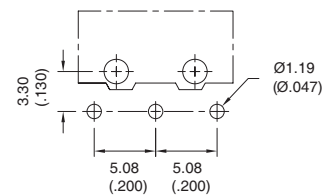
Mounting hole dimensions



Fixing holes



PCB terminals



Bent PCB terminals

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MDB	Actuator	Actuator length	Operation force on plunger (≤N)	Operation force on lever (≤N)	Pretravel mm (in)	Overtravel mm (in)	Movement differential mm (in)	Free position mm (in)	Operating position
Plunger	01	-	0.45 1.0 1.5 2.0 2.5 3.0	- - - - - -	0.50 (.020)	0.20 (.008)	0.20 (.008)	6.30 (.248)	5.50±0.30 (.217±.012)
Hinge lever 8.5mm	02	8.50 (.335)	0.45 1.0 1.5 2.0 2.5 3.0	0.20 0.40 0.53 0.70 0.90 1.10	3.30 (.130)	0.60 (.024)	0.60 (.024)	9.00 (.354)	6.70±1.00 (.264±.039)
Hinge lever 10.6mm	03	10.60 (.417)	0.45 1.0 1.5 2.0 2.5 3.0	0.14 0.30 0.45 0.60 0.75 0.90	3.70 (.146)	0.70 (.028)	0.70 (.028)	9.50 (.374)	7.00±1.20 (.276±.047)
Hinge lever 15mm	04	15.00 (.519)	0.45 1.0 1.5 2.0 2.5 3.0	0.10 0.22 0.33 0.44 0.55 0.66	3.90 (.154)	1.00 (.039)	1.00 (.039)	10.00 (.394)	7.60±1.50 (.299±.059)
Roller lever 10mm	05	10.00 (.394)	0.45 1.0 1.5 2.0 2.5 3.0	0.14 0.31 0.46 0.61 0.77 0.92	5.00 (.197)	0.70 (.028)	0.70 (.028)	16.50 (.650)	13.00±1.50 (.512±.059)
Simulated roller 7.5mm	06	7.50 (.295)	0.45 1.0 1.5 2.0 2.5 3.0	0.18 0.40 0.60 0.80 1.00 1.20	5.00 (.197)	0.60 (.024)	0.60 (.024)	10.50 (.413)	7.00±1.50 (.276±.059)
Simulated roller 13.3mm	07	13.30 (.524)	0.45 1.0 1.5 2.0 2.5 3.0	0.11 0.24 0.36 0.48 0.60 0.72	4.20 (.165)	0.90 (.035)	0.90 (.035)	11.50 (.453)	8.80±1.50 (.346±.059)

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