



T3 range

Hermetically sealed Microswitches



- > Encapsulated snap-action switch
- > Stainless steel casing
- > Inert gas filled switching chamber
- > Gold plated silver contact
- > Mounting holes for M2 screws
- > Terminals:
 - solder terminals
 - 0.38mm² (AWG 22) leadwires, FEP insulation, axial or side outputs

Application:

- Operating temperature: -55°C to +150°C
- Rated breaking capacity: from few mA up to 5A (depending on voltage and electrical load type)
- Mechanical service life: 200 000 cycles

Environmental characteristics:

- Salt spray resistance: 96h
- Humidity: 93% relative humidity, +40°C duration 1000h
- Mechanical shocks resistance: 100g - duration 6ms (pulse shape = 1/2 sine) 18 shocks (3/direction, both of 3 orthogonal axis)
- Sinusoidal vibrations resistance: 10_2000Hz, 50g in each of 3 orthogonal axis
- Random vibrations: 10_2000Hz, 0.15g²/Hz in each of 3 orthogonal axis

Electrical characteristics:

Ratings (electrical load on one throw only)		30 ... 48 V d.c.	6 V d.c.	220 V a.c. - 50 Hz
- resistive load	A	5 A	10 mA	2 A
- inductive load	A	1.5 A (L/R ≤ 5 ms)	-	1 A (Cos φ ≥ 0.5)
Electrical service life	cycles	200 000	200 000	100 000
		U = 28 V d.c. for "AIR" approval	"AIR" approval	out of "AIR" approval
Min. switched current.	mA	5	5	5
Changeover time	ms	≤ 10	≤ 10	≤ 10
Contact resistance	mΩ	≤ 25 mΩ under 6 V d.c. - 100 mA according to MIL-PRF-8805	(As new, wires or cable not included)	
Rigidité diélectrique (50 Hz - 1 mn)				
- between terminals	V a.c.	500		
- between all terminals and earth (ground)	V a.c.	1200		
Insulation resistance	MΩ	≥ 1000 MΩ under 500 V d.c. (at 23 °C with < 80 % relative humidity)		

Approvals and Compliance to Standards:

French Air Ministry Approval as per letter 44.759/STPA/CIN1 dated 26 October 1987.
 Approval according to standards: AIR 8459, NF C 93-415.
 AIR equipment sheets No 6.552.221, 6.552.223, 6.552.224.
 Main compliance or performance equivalences with MIL-PRF-8805 standard requirements.

Mechanical characteristics:

- Max. operating force: 6N
 - Min. release force: 1N
 - Pretravel: 0.30 to 0.70mm
 - Differential movement: 0.05 to 0.40mm
 - Min. overtravel: 0.20 to 0.60
 - Max full overtravel authorised force: 8.5 to 13N
- Interaction between overtravel and mechanical life for T3LD60... types*
- Overtravel: 0.60 to 1.20mm
 - Mechanical service life: 1000 to 5000 cycles

