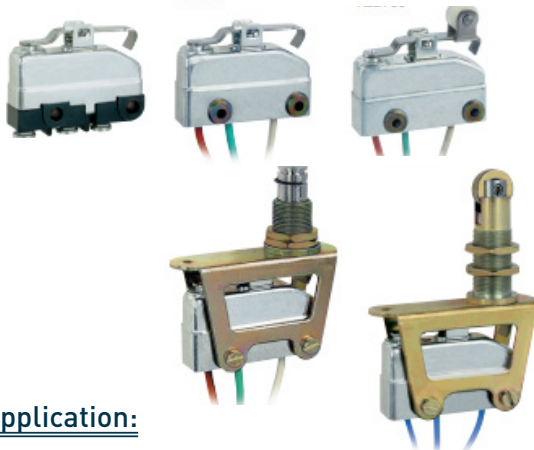




R range

Hermetically sealed Microswitches



- > Encapsuled snap-action switch
- > Brass tinned casing
- > Inert gas filled switching chamber
- > Gold plated silver contact
- > Mounting by way of screws or threaded bushing according to product design
- > Terminals:
 - screw terminals
 - 1mm² (AWG 17) leadwires, reticulated synthetic rubber insulation - general use
 - 0.93mm² (AWG 18) leadwires, FEP insulation - extended temperature range design «-1» series

Application:

- Operating temperature:
 - > screw terminal:
 - 25°C to +85°C - general use
 - 55°C to +155°C - extended temperature range design
 - > wired terminals:
 - 30°C to +120°C - general use
 - 55°C to +155°C - extended temperature range design
- Ratings (220V a.c. - 50Hz voltage): 2.5A or 5A
- Mechanical service life: 100 000 cycles

Approvals and Compliance to Standards:

French Air Ministry Approval based on standard: AIR 8459.
 AIR equipment sheets No 6.552.200, 6.552.201, 6.552.202, 6.552.203, 6.552.210.
 Main compliance or performance equivalences with MIL-PRF-8805 standard requirements.

Environmental characteristics:

- Salt spray resistance: 96h
- Humidity: 93% relative humidity, +40°C duration 168h
- Mechanical shocks resistance: 50g - duration 11ms (pulse shape = 1/2 sinus) 18 shocks (3/direction, both of 3 orthogonal axis)
- Sinusoidal vibrations resistance: 10_2000Hz, 10g in each of 3 orthogonal axis
- Pressure stress: 5 bars absolute

Mechanical characteristics:

- Max. operating force: 7.5 to 9.0 N
- Min. release force: 0.5 to 0.6 x operating force (N)
- Pretravel max: 1.50 to 1.70 mm
- Max differential movement: 0.50 to 0.60mm
- Min. overtravel: 0.40 to 3.0mm
- Max full overtravel authorised force: 15 to 18N

Electrical characteristics:

Ratings (electrical load on one throw only)	30 ... 48 V d.c.	115 V d.c.	220 V a.c. - 50 Hz
Version 2.5 A			
- resistive load	A	3	2.5
- inductive load	A	1.8 A (L/R ≤ 40 ms)	1.5 A (Cos φ ≥ 0.3)
Version 5 A			
- resistive load	A	-	5
- inductive load	A	-	2.5 A (Cos φ ≥ 0.3)
Electrical service life	cycles	100 000	100 000
Min. switched current	mA	5	5
Changeover time	ms	≤ 15	≤ 15
Contact resistance	mΩ	≤ 50 mΩ under 6 V d.c. - 100 mA according to MIL-S-8805 (As new, wires or cable not included)	
Dielectric strength (50 Hz - 1 mn)			
- between terminals	V a.c.	500	
- between all terminals and earth (ground)	V a.c.	1500	
Insulation resistance	MΩ	≥ 100 MΩ under 500 V d.c. (at 23 °C with < 80 % relative humidity)	