

Downmic Limit Switch - Type 1831Y & 4004

The 1831Y Downmic Switch used on many British Aircraft operate efficiently at altitudes up to 60,000 ft and in ambient temperatures from -40°C to +70° (-65°C to +150°C for special applications).



These units are fitted with oil-resistant synthetic-rubber button shrouds and terminal grommets, which provide immunity from normal weather conditions. For extreme operations where free water may be present, 'weather-sealed' Downmics are available on which the grommet sealing is supplemented by adhesive compounds. For extreme temperature applications silicone rubbers are used.

The switch rocker carries two moving contact blades together with a soft iron armature, which moves between two permanent magnets to give a positive 'snap' action. A unique feature of this design is that contact pressure increases up to the point of break, reducing the possibility of 'arcing'.

The Downmic Switch can be obtained with socket-type terminals for use with standard 4 and 7 amp SBAC Ferrules, or alternatively with 6BA screw-type terminals. To facilitate installation a schematic wiring diagram is shown on the switch case and a range of cable grommets is available to suit individual requirements.

A similar Downmic Switch type 4004 is available for industrial applications.

Specification

Endurance:	Average life excess of 10^6 operations	
Pre Travel:	2.16mm maximum	
Weight:	121gms	
Differential:	0.51mm maximum	
Over Travel:	12.7mm (7.3mm for type 4004)	
Safe Overload:	680Kg	
Oblique Load:	Not to exceed 25° from plunger axis	
Temperature Range:	-40°C to +70°C	
Rating (per contract set):	240C.AC 50Hz	5 amps resistive (4004)
	120Vd.c	1 amp resistive
	30Vd.c	8 amps resistive
		5 amps 0.15H Inductance

