

Micro Switch Corporation, Freeport, Ill., manufacturer of compact, light weight, long lived, snap acting electric switches of the precision type more than doubled its research and manufacturing facilities in 1943. More than 2,400 types of switching units were produced for specialized use in airplanes, tanks, submarines, surface ships, fire control, radar equipment, safety devices, instruments, machine tools and many other vital applications. The new Peanut Micro Switch was smaller, and lighter than the standard Micro Switch. It offered a wide gap, high contact pressure, resistance to vibration, and negligible contact bounce which adapted it to use on difficult d-c loads. A heavy duty Micro Switch equipped with a magnetic blowout found wide use on highly inductive d-c loads on aircraft for high altitude performance. Many styles of brackets, actuators and housings were redesigned to accept the standard Type -R31 basic Micro Switch unit which was stocked at all Service Air Depots. This standardization greatly aided in reduction of the spares program, and facilitated service operations.

Monogram Manufacturing Company, Los Angeles, Calif., supplied precision-made sheet metal clamps or fasteners and applying tools to major aircraft manufacturers and subcontractors throughout the aeronautical industry. As manufacturers of 3H safety lock clamps and applying tools, Monogram increased output from 15,000 clamps to 85,000 daily. Monogram produced many different styles and types of safety clamps which were essential to riveting operations on aircraft. The original clamp was an open spring type, with the locking needles made from bright basic wire. However, through extensive research and experimenting, greater utility and higher safety factors were found through the use of a cold drawn, high carbon content tempered steel, swaged in punch presses for precision accuracy. The adoption of this improvement made the open spring type of clamp practically unbreakable, thereby insuring safety in its use. With safety a slogan, Monogram provided additional protection by developing its plunger seal and triple lock line of clamps. These clamps differed from the open spring type in that the exposed spring plunger of the plunger seal clamp was sealed to the body, preventing the clamp from flying apart in the event of breakage. The enclosed spring plunger in the triple lock clamp was sealed completely within the body with the same result. Other features of the clamps were ability to hold sheet metal securely when applied in oversized holes and the provision for additional spring pressure was required. The clamps were standard equipment. Monogram also developed a new model all purpose applying tool for all types and makes of clamps, so designed that it was physically impossible for a clamp to fly apart while being applied.

Moore-Eastwood & Company, Dayton, O., supplied the aircraft industry with tools, dies and special machinery, and produced bomb racks, bomb shackles, gun sights, gun mounting posts, gun



a smaller, lighter
Micro Switch

... that is meeting high favor with Aircraft Engineers

Designed for post-war use, the Peanut Micro Switch so filled the bill for a number of military aircraft requirements that we are now making them in large scale production.

This diminutive switch is smaller than the basic Micro Switch, is very robust, highly resistant to vibration, lighter in weight, lower in cost.

The Peanut Micro Switch is so designed that it can be used without any enclosing case, allowing the actuating movement to be applied anywhere over a large portion of the upper spring. Used with a Bakelite case, a convenient stem mounting is provided. The construction allows inherent overtravel beyond the point of operation sufficient for most uses.

The Peanut Micro Switch, encased in Bakelite housing, weighs .048 lb. This switch resists vibration and acceleration up to 300 times gravity. Operating force is 33 ounces maximum and the movement differential is 0.040" maximum.

Contact separation up to .085" can be varied in manufacture to meet requirements. This wide gap is particularly valuable on DC loads. To provide the high unit contact pressure for low voltage applications, contacts of 99.95% pure silver are formed with a knurled surface.

Send for Catalog No. 70 for general data on Micro Switch for aircraft. Ask for as many copies as you need.



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