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Aircraft — Dimensions for single-hole and triple-hole mounting (Class 3) lever-operated manual switches

Aéronefs — Dimensions des interrupteurs à levier à commande manuelle, avec fixation par un ou trois trous (Classe 3)

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3282 was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and circulated to the Member Bodies in December 1973.

It has been approved by the Member Bodies of the following countries :

Belgium	Japan	Thailand
Canada	Netherlands	Turkey
Czechoslovakia	New Zealand	U.S.A.
Egypt, Arab Rep. of	Romania	U.S.S.R.
Germany*	South Africa, Rep. of	Yugoslavia
Italy	Spain	

* With the exception of dimension *D*.

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

France
United Kingdom

Aircraft – Dimensions for single-hole and triple-hole mounting (Class 3) lever-operated manual switches

1 SCOPE AND FIELD OF APPLICATION

This International Standard gives the overall dimensions, including terminal screws, for single-hole and triple-hole mounting (Class 3) lever-operated manual switches, having the characteristics specified in ISO 3456, *Aircraft – Lever-operated manual switches (Class 3) – Performance requirements*.

2 DIMENSIONAL REQUIREMENTS

2.1 The overall dimensions, including terminal screws, shall be in accordance with figure 1 and the table. The switch shall have at the centre of the front face of the case a 12 mm diameter male thread of 1 mm or equivalent pitch for fixing to the mounting panel. The holes in the mounting panel for fixing the switch to the panel in the case of single-hole mounting shall be as shown in figure 1a). The smaller hole of diameter 3 mm, together with a keyway washer, which also locates in a keyway in the switch mounting bush, shall be used to prevent rotation of the switch, and shall orientate the switch correctly.

2.2 Alternatively, where a triple-hole mounting is required, the switch body, as shown in figure 2 and the

table, shall be mounted directly on the underside of the panel with mounting holes and switch lever apertures which shall be in accordance with figure 2a).

TABLE – Dimensions

Dimension		mm	in
A		48,3 max.	1.9 max.
B	Single-pole	19,0 max.	0.748 max.
	Double-pole	25,9 max.	1.02 max.
	Three-pole	35,1 max.	1.38 max.
	Four-pole	46,0 max.	1.81 max.
C		34,3 max.	1.35 max.
D		12,3 max.	0.484 max.
E*		23,8 ± 1,6	0.938 ± 0.06
θ		18° + 3° 30' – 6° 30'	

* A lever length of 17,5 ± 0,8 mm (0.688 ± 0.03 in) is acceptable, but non-preferred.

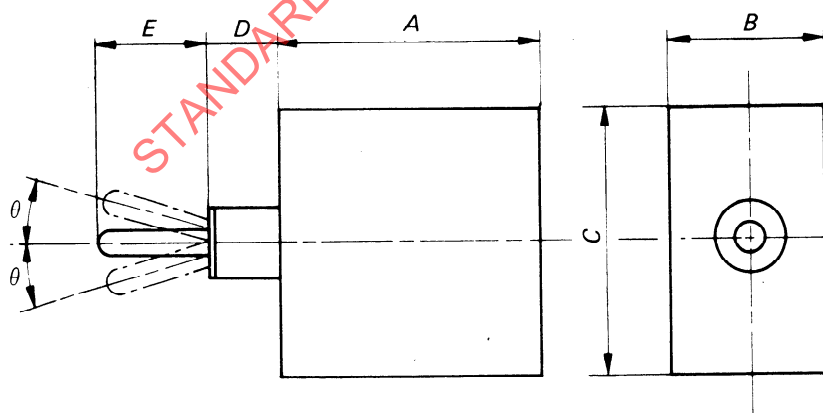


FIGURE 1 – Dimensions for single-hole mounting switch

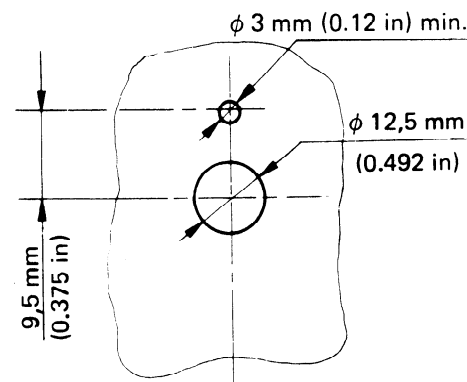


FIGURE 1a) – Panel drilling