

JAIBALAJI Precision Limit Switches

IS : 13947



Pt 5 / Sec - 1



C US



JO1 JO2

JAIBALAJI Precision Limit Switches are designed for industrial duty applications. They are small in size, reliable in operation, have exceptionally long life and are accurate. The wide variety of switch operating mechanisms coupled with the choice of either single pole 1NO + 1NC or double pole 2NO+2NC changeover contacts permit easy selection and application for many needs.

Contact Mechanism

The contact mechanism incorporates a moveable contact assembly utilising two pressed leaf springs to provide quick-make, quick-break action which eliminates any position of zero contact pressure and ensures non-teasing action, even with an extremely slow operation motion.

The light weight beryllium-copper contact carrier with large faced silver contacts and low bounce mechanisms assure long life on high load applications. The serrated silver stationery contacts, definite wiping action and high contact pressure assure reliability on dry circuit applications. The switch is completely enclosed in a semi dust-tight moulded, phenolic case of great physical strength and high arc-resisting capacity.

Versatile

A wide variety of operations is available for use in combination with the basic switch. These operators with individual mounting variations, afford a high degree of versatility.

Push button plunger

These are designed for one hole panel mounting. The plunger mechanisms is of oil-tight construction and prevents any ingress of oil, including coolant. These operators are designed for an inline actuating motion with controlled over-travel.

Roller plunger

Operators are designed for one hole mounting and are of oil-tight construction. The roller plunger comes assembled either in line with the length of the contact block or at right angles to it. This allows the roller to accept cam or slide operation from any of the four directions.

Six inch (150 mm) lever

Operators provide either top and right hand mounting or top and left hand mounting. With this do-it-yourself operator, the lever may be formed by the user to satisfy unusual requirements and can be cut or bent to any desired length or shape.

Roller lever

Operators are available with either top and right hand mounting or top and left hand mounting and are equipped-with a steel roller which may be operated by a cam or some similar actuating device. Operation is provided in both directions.

Electrical and mechanical ratings

Utilisation Category : AC 15 and DC 13 as per IEC 947 - 5 - 1
and IS : 13947 / Pt 5 / Sec 1
Thermal current (I_{th}) : 15A
Insulation Voltage (UI) : 600 V AC

Operational current and voltage

Ac15 rating	Single pole (1NO + 1NC changeover contacts)	Double pole (2NO + 2NC changeover contacts)
110V	4A	3.0A
240V	2A	1.5A
440V	1A	0.8A
600V	0.8A	0.6A

Dc13 rating	Single throw	Double throw	Single throw	Double throw
115V	2.0A	0.5A	1.0A	0.2A
230V	0.5A	0.2A	0.3A	0.1A
600V	0.1A	0.02A	0.1A	-

Contact combination : Single pole 1 NO + 1 NC changeover contacts
Double pole 2 NO + 2 NC changeover contacts

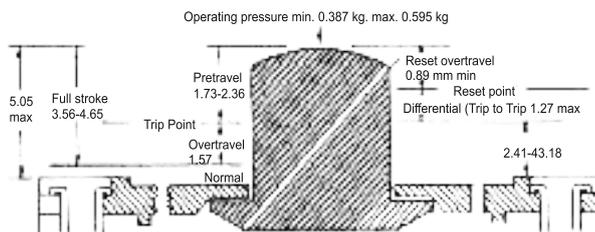
Frequency of operation : 2500 operations per hour (max)

Mechanical and electrical life : 20x10⁶ operations without operator
10x10⁶ operations with operator

Operating force : 0.595 kg (max)
0.387 kg (min)

Terminal capacity : 2.5 mm solid or stranded conductors

Operating Data



The repeat accuracy of individual switch trip points is such that after millions of operations they do not drift more than two or three thousandths of an inch.

Selection chart

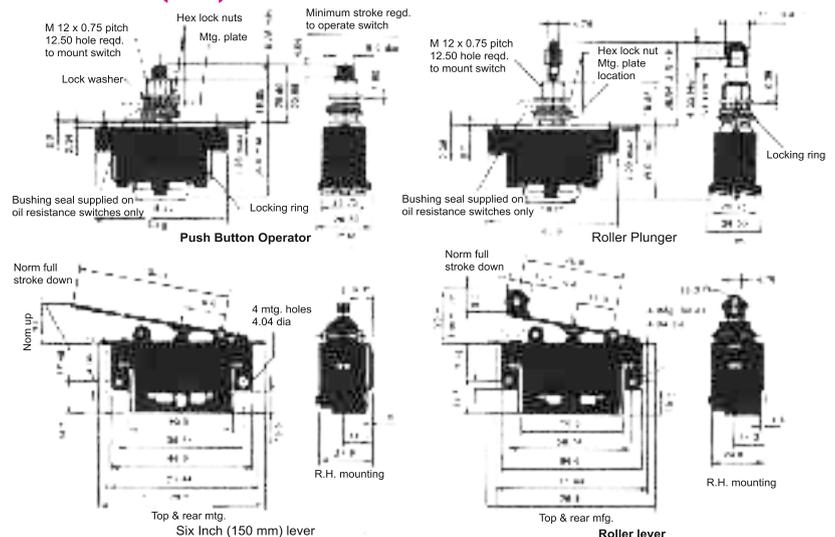
Description	Models
Precision switch without operator with 1 NO + 1 NC contacts	JO1
Precision switch without operator with 2 NO + 2 NC contacts	JO2
Precision switch with top push button operator with 1 NO + 1 NC contacts	JO1TPB*
Precision switch with top push roller operator assembled in line with contact block with 1 NO + 1 NC contacts	JO1TPRA*
Precision switch with six inch lever operator (right hand mounting) with 1 NO + 1 NC contacts	JO1SILR*
Precision switch with six inch lever operator (left hand mounting) with 1 NO + 1 NC contacts	JO1SILL*
Precision switch with roller lever operator (right hand mounting) with 1 NO + 1 NC contacts	JO1RLR*
Precision switch with roller lever operator (left hand mounting) with 1 NO + 1 NC contacts	JO1RLL*

*For switches with 2 NO + 2 NC contact block, add suffix JO2 to the catalogue code.

Spares

Operator Assembly	Models
Top push button	JO TPB
Top push roller assembled in line with contact block	JO TPRA
To push roller assembled at right angle to contact block	JO TPRB
Roller lever, right hand mounting	JO RLR
Roller lever, left hand mounting	JO RLL
Six inch lever, right hand mounting	JO SILR
Six inch lever, left hand mounting	JO SILL

Dimensions (mm)



MANUFACTURED BY :

JAIBALAJI
CONTROL GEARS PVT. LTD

POST BOX NO. 27 89, (NEW NO:107), SIDCO IINDUSTRIAL ESTATE
AMBATTUR, CHENNAI - 600 098.

PHONE : 26251279, 26257859, 26254469

FAX : 044-26255038. E-MAIL : dchandramohan@jaibalaji.firm.in