ROTARY SWITCHES



Series 25

DESCRIPTION

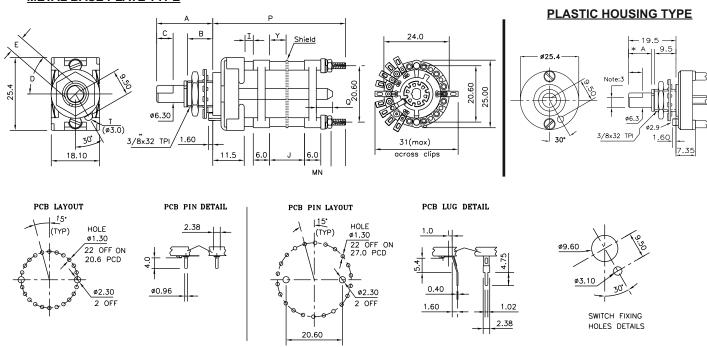
Integral Series 25 Professional grade Rotary Switches are ideally suited for use in Industrial and Laboratory equipments. Double wiping self cleaning contacts and choice of excellent Dielectric materials and suitable plating finishes result in long term reliability and consistent quality. An almost infinite variety of switching configuration meet most of the design requirements of the user. Assembly options are possible with the use of spacers, shields etc. and permit custom built switches. 'O' ring sealing is available for both spindle and panel mounting bush. The balanced pressure indexing mechanism provided by 2 balls housed in a steel base provides smooth positive action with consistent and repeatable torque. Switches type equivalent to JSS 51207 available.

FEATURES

- Choice of 30°, 45°, 60° and 90° indexing angles.
- Make before Break, Break before Make or special rotor segments
- Insulated shafts for RF circuits
- Concentric shafts for operating a pot meter mounted at the rear of the switch (on request)
- Rigid or Flexible Tag PCB terminals (for single wafer only)
- Shields between wafers as per customer requirements
- Gold plating on clips/rotors available
- Dust proof caps to protect contacts from dust available
- Type approved to JSS 51207 available (with coin silver clips and panel and spindle seal)

DIMENSIONAL DETAILS

METAL BASE PLATE TYPE



All Dimensions in mm.

MATERIALS & FINISHES

CONTACT RATING

CURRENT CARRYING

: 2 amps (non-switching) **CURRENT BREAKING** : 0.5 amps @ 28 V DC

0.25 amps @ 110 V AC

(Resistive)

ROTOR BLADES

CONTACT CLIPS

: Spring hard brass heavily Silver Plated / Gold plated / Silver alloy

: Brass heavily Silver plated /

Gold plated

WORKING VOLTAGE

: 230 V AC (max)

STATOR & ROTOR

Moulded glass fibre loaded Diallyl Phthalate / Nylon / PC

INSULATION RESISTANCE: >1000 Megohms (between any

two insulated parts)

BASE : Steel sheet Zn plated

And passivated.

In some cases high temperature Engineering plastics are also

used.

VOLTAGE PROOF

: min 750 V AC

CONTACT RESISTANCE

<15 milliohms (Initial - adjacent

Contact) @ 2-4V DC

INDEX MECHANISM

: Index springs stainless steel & other parts zinc yellow plated

And passivated.

TEMPERATURE RANGE : -65°C to 85°C

LIFE : 25,000 operations : 30°, 45°, 60° & 90° **INDEX ANGLE**

SEALING : Panel & Shaft seal on request

(Standard on switches which

meet JSS51207)

CHECK LIST FOR ORDERING: Given below are the variations possible in the Switch. Please take care to see that all these points are taken note of if you are ordering a custom-built special switch. For contact configuration, other than standard, use the layout sheet available on request.

A - Shaft length - 10 mm (dia 6.35 mm)

B - Bushing thread length - 9.5 mm / Threads 3/8"x32 TPI (Length 6.35 mm available on request)

C - Flat length - Standard 6mm (in no case closer than 3 mm from end of bushing) Optional

D - Angle of flat - Multiples of 15° +3° (specify position of flat with switch shaft in fully counter-clockwise position when viewed from front or knob end)

E - Flat Dimension - 5.5 + 0.1 mm

I - First spacer - 3.0 mm with standard clips (No spacer needed if no clip present) J - Spacer - 5.0mm with standard clips facing each other

M- Standard 4.0mm min (Any length spacer may be inserted at this point)

N - 1.5mm to 5.0mm to suit standard screw available

L/P - Specify maximum overall length, if important

- Shaft extension at rear nominal 2.0mm to 6.0mm (to suit standard shaft available)

- Index angle 30°, 45°, 60° & 90°

- Stopper - Yes/No

Locating Lug - Yes/No

Hollow shaft

- No. of Poles/Ways

W - Contact Terminals - Solder type/PCB type

- Contact - Silver/Gold plating/Silver alloy

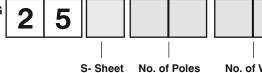
- Shields (dimension/position)

- Rotor - Non shorting (Break before Make) - N Shorting (Make before Break) - S

HOW TO ORDER

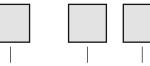
- 1. For standard switch by describing as given below.
- 2. For special assembly use layout or send drawings.

ORDERING CODE



No. of Ways N-Non Shorting (Positions) S-Shorting





Clips **B-Brass Silver Plated** C-Coin Silver

G-Gold Plated D - Dust P - PC pins Cover PL - PC lugs

* Note:- PC Pins & PC Lugs can be Supplied only without Dust Cover.

metal

P- Plastic

INTEGRAL SYSTEMS AND COMPONENTS PRIVATE LIMITED

D-388/1, 1st Block, 1st Stage, Peenya Industrial Estate, Bangalore - 560 058, India Telefax: (080) 2839 1707 / 2839 1708 / 2839 1709 / 2839 1710 An ISO 9001:2008 Company Website: www.integralsys.in E-mail: inty.systems@gmail.com / sales@integralsys.in

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Series 90

DESCRIPTION

Integral Collet Knobs can be used for all types of Rotary Switches. They are sturdily built and are able to withstand repeated use. They are designed to meet the requirement of different shaft Dia.



Operation of knob, it is effective to rotate the pointer to give an indication of switch position.

KEY FEATURES OF KNOB:-

- Simple construction with reliable operation.
- Simplicity of use.
- Styling

Knob is designed to have easy fit of accessories giving more versatility.

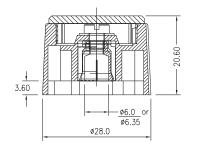
KNOB STYLE: Standard

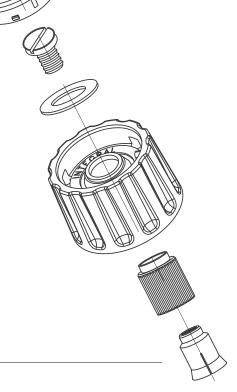
MATERIALS & FINISHES

MOULDINGS : Engineering Plastic (matt finish)

METAL Brass, Nickel Plated.

DIMENSIONS OF KNOB





ORDERING CODE:-

COLOUR

COLLET DIA

0 - Light Grey

0 - 6.35 mm dia.

1 - Dark Grey

1 - 6.0 mm dia.

2 - Black

All Dimensions in mm.



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