Outline of the Series

1. Ultra-compact rotary switch for PCB applications.
2. The contact section uses gold-over-nickel plating with a self-cleaning wiping action, ensuring stable contact even at low currents.
3. Terminals are insert-molded to create a completely sealed structure, preventing flux intrusion.
4. The JRA type features an externally adjustable stopper, allowing the number of detent positions to be set as desired.
5. The JRE type is equipped with an O-ring to prevent water intrusion from the top of the panel.

Common Specifications

■ Ratings

Voltage	Ratings	Load	Notes
DC20V	0.4VA	Resistive Load	Load only with Resistive, Power Factor=1

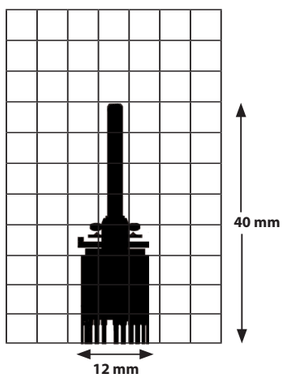
* A resistive load refers to a load consisting solely of resistance. In actual circuits, however, there may be inductive, capacitive, or motor loads, each of which can generate inrush current. Therefore, when selecting a switch, be sure to choose a rating with sufficient margin above the steady-state current.
For more details, please refer to "Useful Advices and Precautions on Usage of Operational Switches."

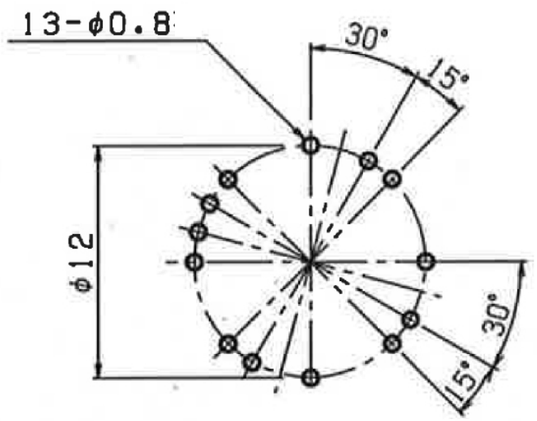
Contact Resistance	100 mΩ Max. (DC2V 1A) (Initial value)
Withstanding Voltage	AC500V 1 Minute
Insulating Resistance	100MΩ Min. (DC500V)
Electrical Life	10,000 times
Operating Temperature Range	-20℃～ +70℃
Storage Temperature Range	-20℃～ +70℃
Flow-soldering Conditions	270℃ Max. within 5 sec.
Operatinf Force	98mN・m MAX

Packaging Quantity
25 pcs/Case X 40Case = 1,000 pcs

■ PCBMounting Hole Dimensions（common for all Circuits/ Contacts）

Silhouette（JRA1-12）





* For products other than those listed above or for custom items, please contact us.

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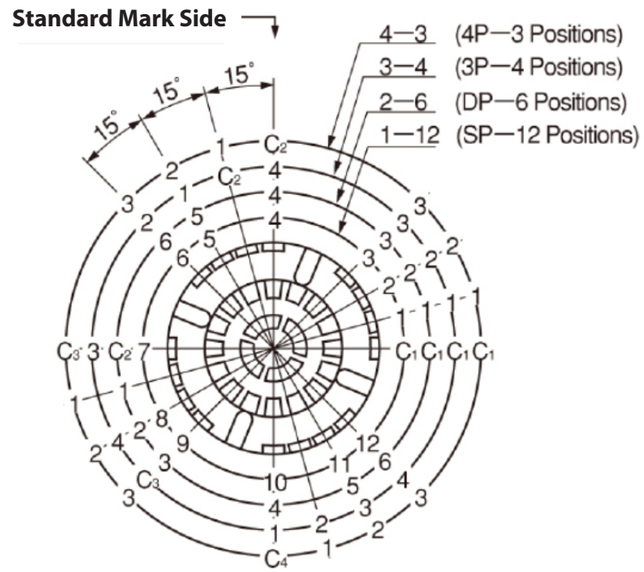
Product Designations

Series Name	Type Name		Number of Circuits		Number of Contacts
J	R	A	1	–	12

Type Name	Symbol
Standard Type	RA
Splash-proof Type	RE

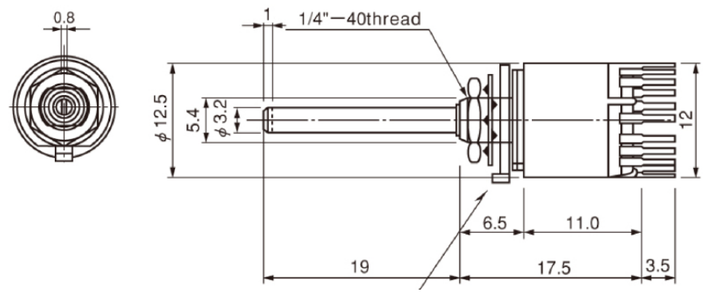
Number of Circuits	Number of Contacts	Symbol
1	12	1-12
2	6	2-6
3	4	3-4
4	3	4-3

■ Relation Diagram between Circuit and Contacts (as seen from the bottom of the Switch.)



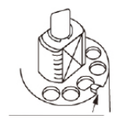
Standard Dimensions

Standard Type（JRA □ - □）



How to set JRAType's variable stopper

1. Insert the stopper at the reference mark position.
2. Rotate the shaft counterclockwise until it reaches the stopper position.
3. Insert the second stopper into the hole that is two positions beyond the desired number of contact points.
[Example] For 1–6 positions, insert the first stopper at the reference mark and place the second stopper at the 8th position clockwise.
Note: Two stoppers are included for positions 1–12.
* If a specific number of stop positions is required, please contact us.


Standard Mark Side

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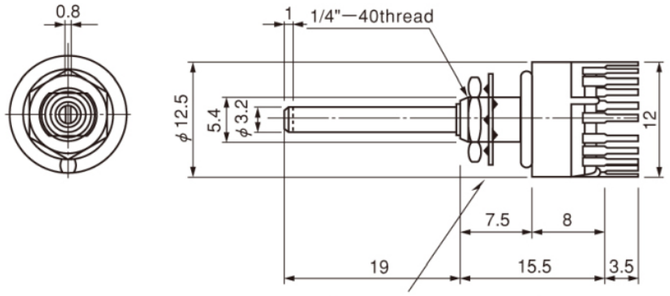
Rotary
J Series
DC20V 0.4VA
PCB Terminal
1Cir.12 Cont.
2Cir. 6 Cont.
3 Cir. 4 Cont.
4 Cir. 3 Cont.

Splash-proof Type （JRE □ - □）



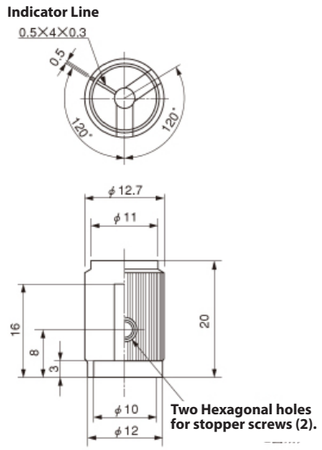
Standard Mark Side

Accessories, Mounting Hole Dimensions, Mounting Parts Dimensions

■ Knob

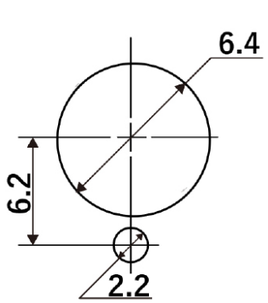
Aluminum Knurring Finish (Black)
Indicator Line: White
Parts Number: 68254907

Aluminum Knurring Finish (Silver)
Indicator Line: Black
Parts Number: 68254908

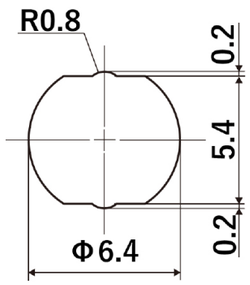


For the assembly of aluminum Knurring, please use a hexgonal wrenth #6-32UNC.

■ Mounting Hole Dimensions



With Stopper Ring



Without Stopper Ring
(For Spalash-proof)

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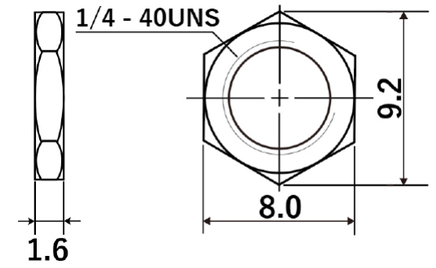
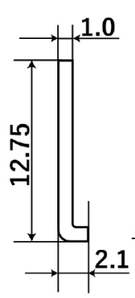
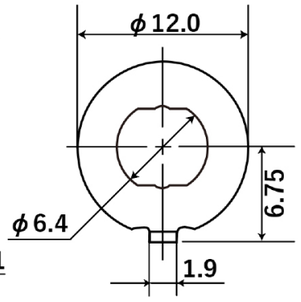
■ Mounting Parts Dimensions

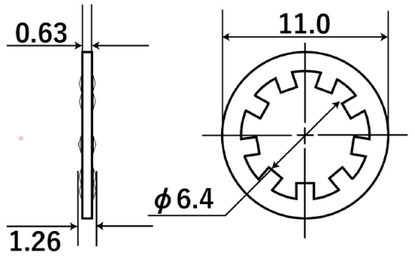


Hexagonal Nut

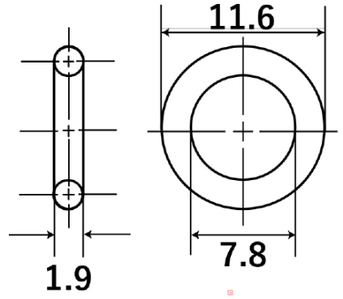




Stopper Ring
(For Non-splash-proof)



Inner-dental Washer



O-ring
(For Spalash-proof)

Compliance with the European RoHS Directive

All DIP switches, control switches, connectors, and terminal blocks manufactured by OTAX with the following RoHS Directive:

Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

Our products do not contain any of the ten specified hazardous substances (except for exempted applications):

Lead (Pb) Mercury (Hg) Cadmium (Cd) Hexavalent chromium (Cr^{6+}) Polybrominated biphenyls (PBB)

Polybrominated diphenyl ethers (PBDE) Di(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP)

Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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