

Concept

Our Rotary Cam Switches offer an economical and compact means of opening and closing electrical circuits. Numerous options allow us to create a switch to your specific requirements from a minimal number of basic components.

Design

The contacts of the switch are opened and closed by round disks called "cams". The cams are notched to allow the contacts to open and close in the positions you desire. A spring forces the contact closed wherever the cam is notched. The cam holds the contact open wherever it is notched. Each contact is operated by its own cam, independent of the other cams in the switch. The contacts and cams are mounted in decks, each deck holding up to two contacts. The decks are stacked onto each other until the number of contacts you require is reached, with a maximum of 24 contacts. The switches are securely held together with two metal rods (the PR12 series is ultra-sonically welded together instead of using the metal rods). A chamber at the top of the switch holds a special cam which determines the switching angle or detent of the switch. Switches are available with 30, 45, 60 or 90 degree switching angles. The handle is attached to a shaft which goes through the switch and rotates the cams as the handle is turned, thus opening and closing the contacts as you desire.

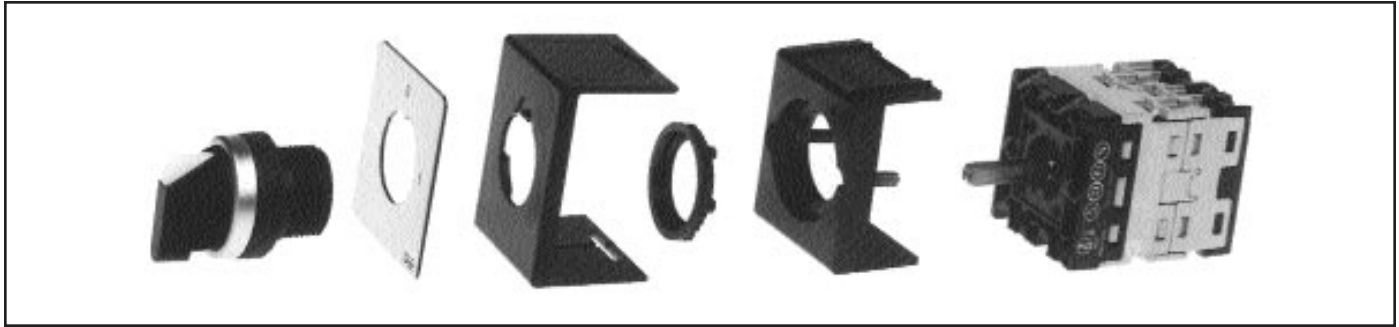
Flexibility

- 1 to 24 contacts
- 8 switch sizes
- numerous mounting options
- a large selection of handles and accessories

Full Line Cam Switch Catalog

The material shown in this catalog is intended as a brief introduction to our line of Rotary Cam Switches. For further details on our rotary cam switches please request our full line cam switch catalog.

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Part Numbers

Complete cam switch part numbers are developed sequentially, starting with the switch series and adding the reference numbers for the various features of the switch. These features are grouped in the following categories:

Category	Example Part Number
1) Switch series (electrical ratings)	PR12
2) Switch function (switching configuration)	1102
3) Switching angle (detent)	A4
4) Type of mounting	E
5) Type of legend / nameplate	Q48
6) Type of handle	PND

In the example above, the complete part number of the cam switch would be 'PR121102A4EQ48PND'.

When all of the features of the switch have been selected, the part number is complete. The complete part numbers can sometimes become too long to be entered into computer systems. To accommodate this, a unique condensed part number is assigned to every cam switch ordered. The part numbers for the 'standard cam switches' on the following pages represent the condensed part numbers. You may order using either expanded or condensed part numbers.

Assistance in Ordering

Due to their unique flexibility, ordering a rotary cam switch can be quite challenging. Our rotary cam switches are offered in eight different electrical ratings, from 1 to 24 contacts, with numerous mounting, legend plate, and handle options.

We invite you to contact our technical department for assistance in selecting the rotary cam switch which will best meet your needs. In order that we can more promptly provide you with the part number of the specific switch you require, if possible, please be prepared to answer the following questions regarding your application when you contact us:

- in general, what do you want the switch to do?
- can you provide a chart showing the opening/closing of the contacts ('X' chart)?
- what is the maximum current rating, make/break and continuous?
- what is the maximum voltage, ac or dc?
- how do you want to mount the switch?
- what type of legend plate and handle do you prefer?
- are there any special environmental conditions where the switch will be located?

