



O/E/N OM ROTARY WAFER SWITCHES

- Patented Unidex indexing
- Flexible Switch package
- Military & Commercial Version
- Variety of Switching configurations
- BCD & Hexa Decimal coded outputs
- Optional water sealing

CRISP, UNIFORM DETENTING

A patented Unidex™ detent, using one or two balls operating on a starwheel, gives Multidex switches a crisp, uniform feel. Unidex detents last a lifetime and are designed to meet JSS 51207 requirements.

Unidex indexing is available in 10°, 15°, 20° and 30° throw as standard. (11.25°, 12.85°, 18°, 22.5° and 25.7° throws available as specials.)

BEST OF INSULATION

Both rotor and stator are moulded diallylphthalate: meeting MIL- M-14 requirements.

Thousands of variations - available in a single switch - will eliminate much tedious design work for the engineer and help him do the job faster.

CONTACTS

The OAK pioneered double wiping contacts are self - cleaning. The terminals are designed for easy insertion of wire and fast soldering.

Two types of Contacts - shorting (Make before break)

Non Shorting - (Break before make) Silver plated brass contacts are rated for 0.5 Amps (resistive) at 28 VDC . and 0.25 Amps (resistive) at 110VAC. Silver alloy contacts are rated for 1.0 Amp(resistive) at 28 VDC. and 0.5Amps (resistive) at 110 VAC.

Gold flashing or gold plating can be provided over silver alloy when specified to improve storage characteristics, dry circuit switching, increase reliability when used infrequently or in corrosive atmospheres or limit contact resistance variation:(See under Military specifications for rating of switches to JSS).

FINISHES

All component parts requiring plating are cadmium or zinc plated and passivated as per our standards.

OPTIONS AVAILABLE

Stops

Fixed stops at total number of positions specified are standard. If OFF position is required, please indicate whether it is to be the first or last switch position.

Clip Terminals

Standard is 60° bend on terminals. Flat and reverse clips are also available on request. Electrostatic shields, mounting brackets, etc. are available as standard and can be supplied when specified.

RESIST ADVERSE ENVIRONMENTS

Commercial types rated from - 25° to +85C°, military types from - 65° to + 85°C. Both types are made of materials and finishes to withstand the 50-hour salt spray test.

MILITARY SPECIFICATIONS

The Multidex switch is designed to meet the US MIL-S-3786/R-05 requirements and is Type Approved in India to JSS 51207. To meet JSS 51207 requirements, switches should incorporate silver alloy (plain, gold flashed or gold plated) contacts, water sealing (both shaft and index 'O' ring seals) and Stainless Steel shafts.

Contact rating requirement for resistive loads as per SR W05 of JSS51207:

200 mA at 28 VDC.

50 mA at 230 VAC.

**STANDARD SECTIONS FOR
18 AND 36 POSITION SWITCHING**

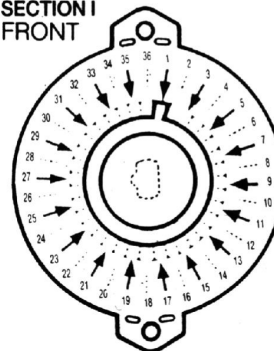
10°

1. For 1 pole, 35 active position operation, circuitry will be as shown on section I.
2. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.

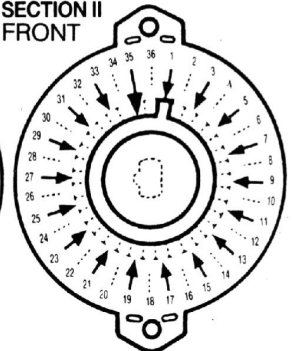
20°

1. For 2 pole, 17 active position operation, circuitry will be as shown on section II.
2. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.

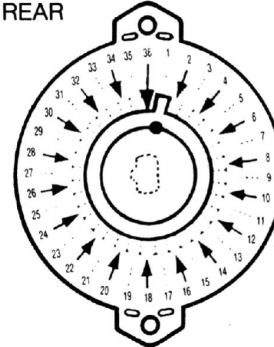
**SECTION I
FRONT**



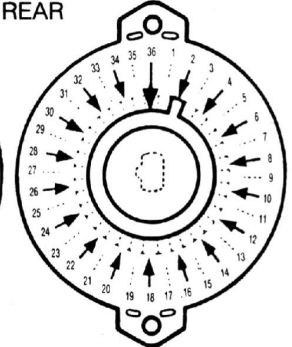
**SECTION II
FRONT**



REAR



REAR



**STANDARD SECTIONS FOR
16 AND 32 POSITION SWITCHING**

11.25°

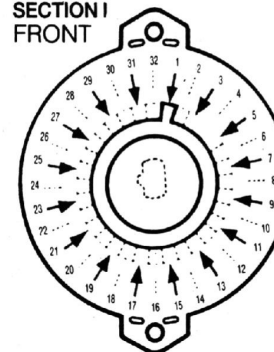
1. For 1 pole, 31 active position operation, circuitry will be as shown on section I.
2. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.

**STOPS AT ODD NUMBERED
POSITIONS NOT AVAILABLE**

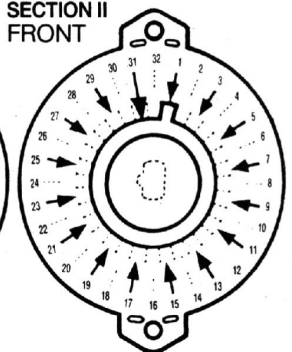
22.5°

1. For 2 pole, 15 active position operation, circuitry will be as shown on section II.
2. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.

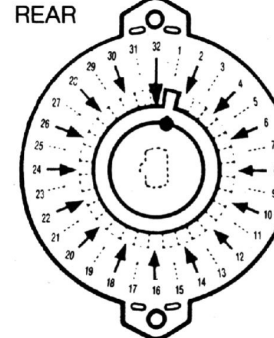
**SECTION I
FRONT**



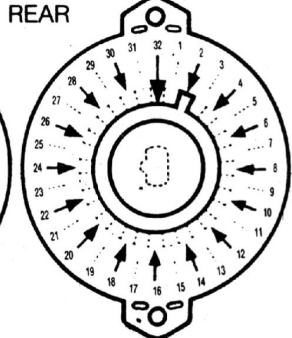
**SECTION II
FRONT**



REAR



REAR

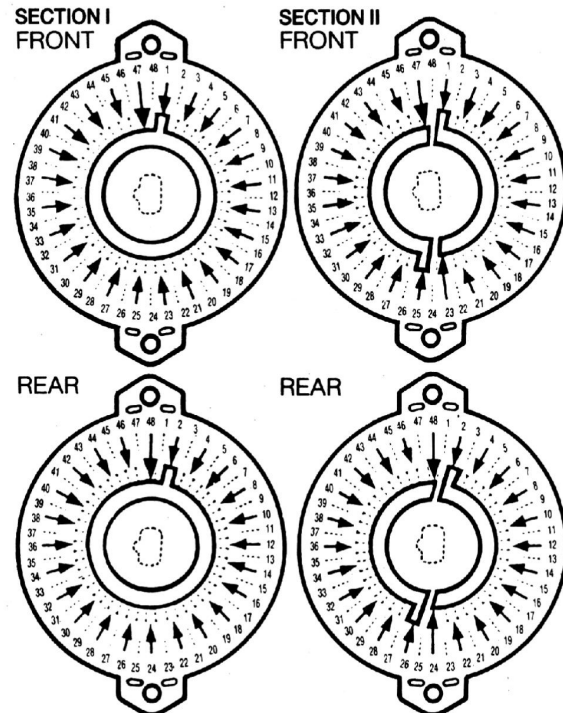


STANDARD SECTIONS FOR 24 POSITION SWITCHING

15°

1. For 2 pole, 23 active position operation, circuitry will be as shown on section I.
2. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.
3. For 4 pole, 11 active position operation, circuitry will be as shown on section II.
4. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.

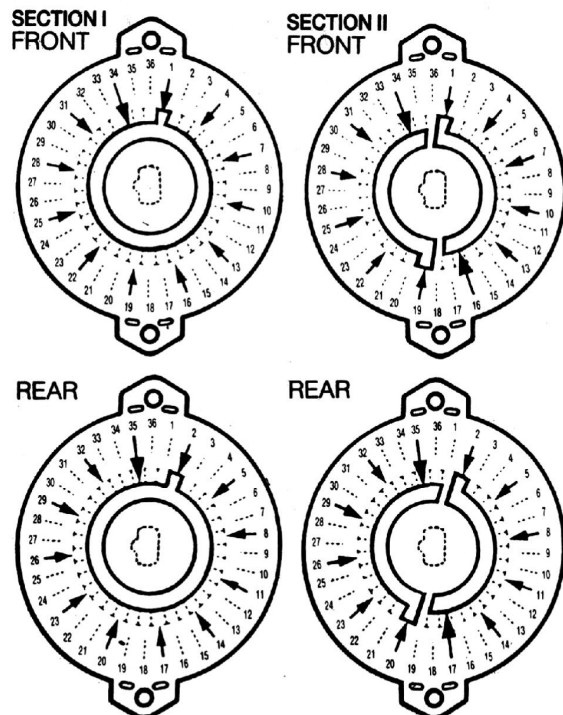
This stator does not permit clips on front and rear to be tied with common eyelet. Only odd or even positions can be used on either side of stator. If odd position are used on one side, even position must be used on the other.



STANDARD SECTIONS FOR 16 AND 32 POSITION SWITCHING

30°

1. For 2 pole, 11 active position operation, circuitry will be as shown on section I.
2. For 4 pole, 5 active position operation, circuitry will be as shown on section II.
3. As number of required positions decreases, a corresponding number of short clips will be deleted from the clockwise end of rotation.



Switches with 12.85°, 25.7° & 18° angle of throw are available with higher lead time

SPACING	WITHOUT CLIP OR WITH FLAT CLIP	WITH STD. CLIPS	WHEN STD CLIP FACE NO CLIP OR FLATCLIP
I	2.05 (.080)	7.8 (.307)	—
J	3.8 (.149)	10.2 (.400)	6.8 (.267)

Technical drawing of a circular connector with dimensions in inches and millimeters:

- Top horizontal dimension: 40.9 MAX. FOR 60° CLIPS (1.6)
- Top horizontal dimension: 43.3 MAX. FOR FLAT CLIPS (1.7)
- Left vertical dimension: 46.4 MAX. (1.823)
- Left vertical dimension: 39.68 (1.582)
- Bottom horizontal dimension: 33.73 (1.328)
- Bottom left dimension: 2.98 DIA (0.116)
- Right vertical dimension: 12.7 (0.50) MAX.
- Right vertical dimension: 2.06 APPROX. (0.061)
- Right vertical dimension: 2.5 (0.088)
- Right vertical dimension: 6.35 (0.25)

NOTE : CLIPS CAN'T BE PROVIDED AT ADJACENT POSITIONS