

Blore Edwards Rotary Wafer Switches – PXR

We're in control

General characteristics of TYPE PXR

The Type PXR Rotary Wafer Switch has 23.8mm diameter moulded wafers and is available in five versions; 15°, 30°, 36°, 45° and 60° indexing. The pressed steel front plates are available with imperial and metric threads and with 0° set and 45° locating lugs if required. The PXR is fitted with leaf springs and ball bearings allowing this switch a greater degree of torque settings than either the PX or PXM. The PXR has two types of leaf spring a steel (standard) and bronze (light) and can be used in multiples to give the 'feel' that is required.

Electrical Specification

Maximum working voltage 300V ac (rms) or dc

Contact rating

Current Carrying	2 Amp Continuous
Current Breaking with resistive load	25 Watt ac or 15 Watt dc Recommended max voltage 300V ac and max current 500mA ac, dc
Proof voltage	1000V ac (rms) minimum
Insulation resistance (all paths)	Greater than 10 ⁶ Megohms
Contact resistance (initial)	2 – 10 Milliohms
(After 20,000 cycles)	Not greater than 5 milliohms above initial

Mechanical Specification

End Stop Strength 1.7Nm (15lb ins)

Maximum switching per wafer

Poles	1	2	3	4	5	6	7	
Ways	Available as a 23 Way over 2 wafers							15° Indexing
Ways	12	9	5	4	3	2	2	30° Indexing
Ways	10	6	4	3				36° Indexing
Ways	8	7	3	3				45° Indexing
Ways	6	6	3	3				60° Indexing

Contacts

Standard – Brass silver plated, silver alloy or brass gold plated contacts are available
 PC Terminations – available in above finishes
 PC Pin and standard terminations

Rotor Blades

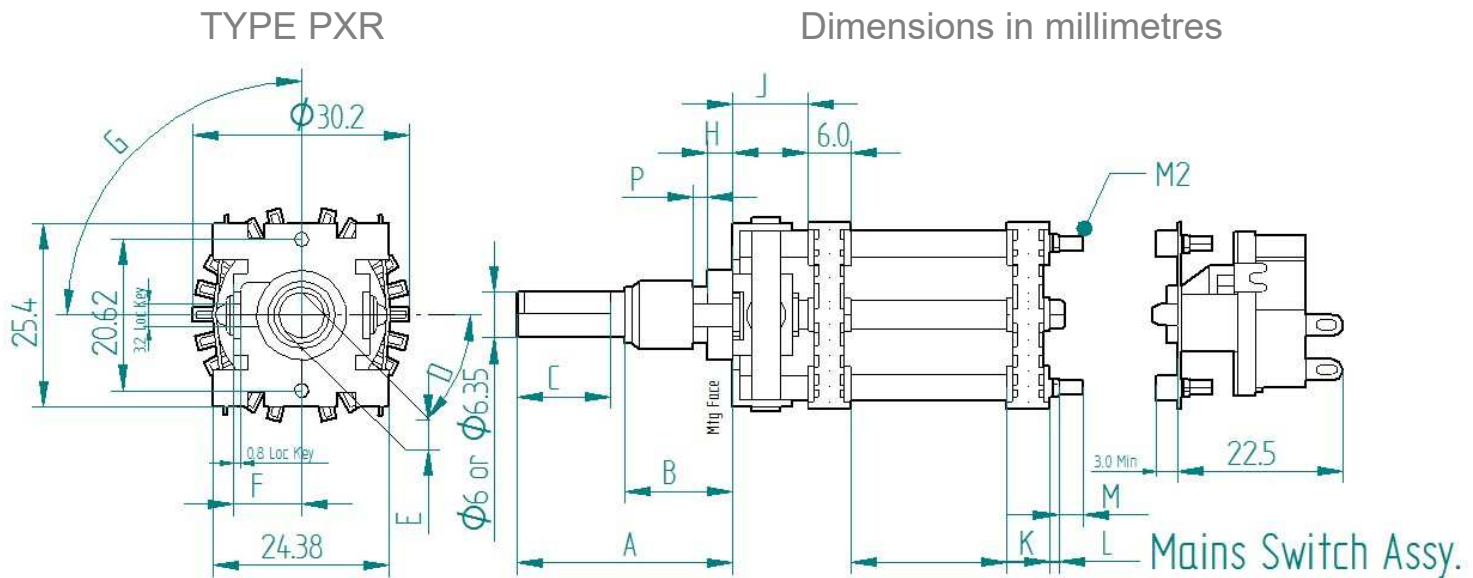
Make before break or break before make, all available in above finishes

Insulation

Stator – Moulded diallylphthalate (DAP)
 Rotor – Acetal resin

Finish

Standard – Zinc plated and passivated. Other finishes available on request



Key to Details

- A. Shaft length to specification
- B. Bushing thread length. Imp. 9.5 or 6.35 and Metric 8.0,10.0 or 12.0mm
- C. Flat length to specification. Special flat trims may be provided to special requirement
- D. Angle of flat to specification $\pm 2^\circ$. Specify position of flat with switch in fully anti-clockwise position when viewed from knob end.
- E. Flat thickness to spec. standard 5.54 ± 0.05
- F. Distance of locating key centre line to centre line of shaft.
- G. Angle of locating key: Type PXR 0° and 45°
- H. Bushing shoulder: Type PXR 3.16 (0.125")
- J. Type PXR 12.16 (0.479") standard
- K. Wafers are self-stacking. Spacing between wafers can be provided in 1mm increments.
- L. If no spacer 2.7 spacers may be inserted at this point in 1mm increments.
- M. As required.
- P. Locating lug lengths
Unsealed Type PXR 2.0mm above mounting face.
Sealed Type PXM 0.05/0.15 below mounting face.

Optional features

Concentric shafts – dual concentric mechanisms, panel and spindle seals, printed circuit terminations, adjustable stop, electrostatic screens and facilities for fitting mains switches, potentiometers and potentiometers with mains switches.

Typical Applications

The PXR is widely used in the audio industry for Consoles, Modules and other high-end and professional applications. Can be fitted with a potentiometer, is available as a dual concentric mechanism and is generally a versatile fit for any application where a sturdy and reliable selector switch is required.