

Blore Edwards Rotary Wafer Switches –PYHD

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General characteristics of TYPE PYHD

The Type PYHD Rotary Wafer Switch has 31.8mm diameter moulded wafers on a Heavy Duty mechanism comprising a hardened steel indexing wheel fitted to the spindle and deflecting a hardened steel roller, housed between two bearing arms and tensioned by the finest quality high tensile coils spring. The PYHD is available in three versions 30° and 60° indexing and also a special 90° spring return indexing.

Electrical Specification

Maximum working voltage 300V ac (rms) or dc

Contact rating

Current Carrying	5 Amp
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	12	9	5	4	3	2	2	30° Indexing
Ways	6	6	3	3				60° Indexing
Ways	4	4						90° 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

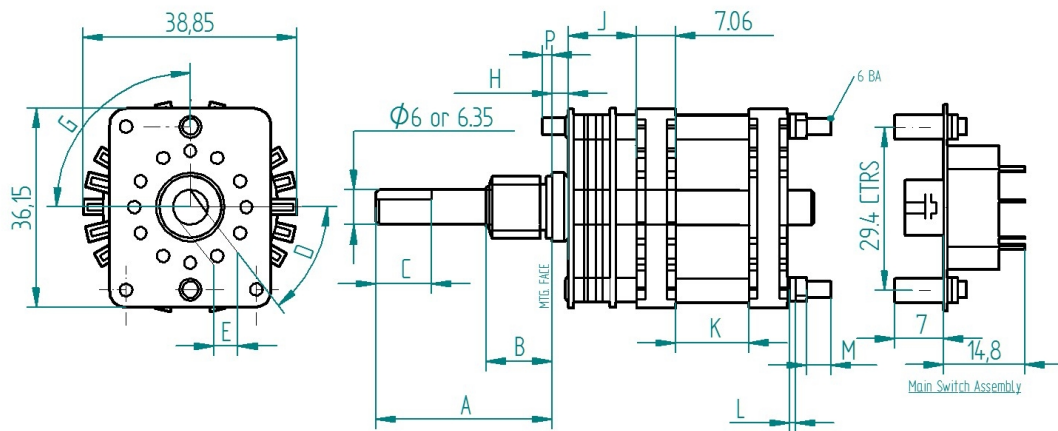
Stator – Moulded diallylphthalate (DAP)
Rotor – Acetal resin

Finish

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

TYPE PYHD

Dimensions in millimetres



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: 90° or 270°
- H. Bushing shoulder: Type PYHD 3.16 (0.125")
- J. Dimension to first wafer 14.28
- K. Wafers are self-stacking. Spacing between wafers can be provided in 1mm increments.
- L. If no spacer 4.0 spacers may be inserted at this point in 1mm increments.
- M. As required.
- P. Locating lug lengths
Unsealed Type PYHD 1.58 above mounting face.
Sealed Type PYHD 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 PYHD is a good fit for where a heavy duty switch is needed. It is used for **Military** applications, for test equipment and **instrumentation** and is also used for **lighting rigs**.