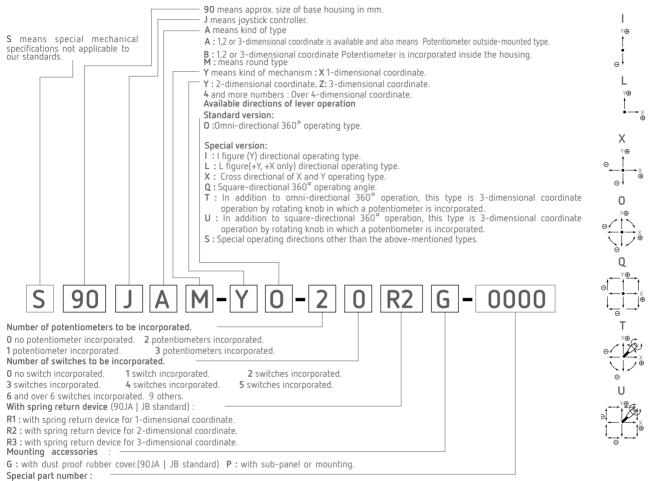




outside mounted type 90JA | incorporated type 90JB

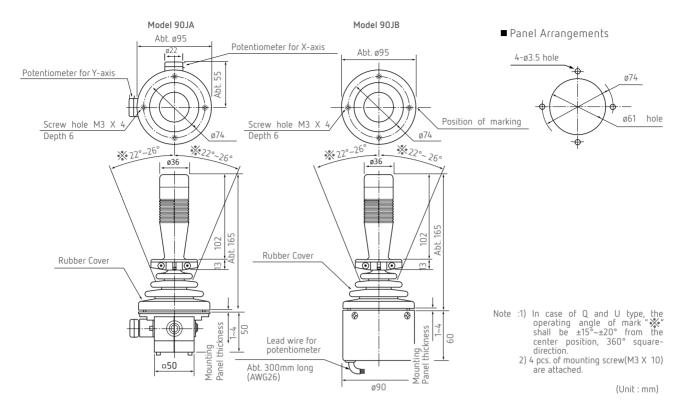
↔ Model 90JA | 90JB



In case we produce customized product, we add 4-digit branch number.



Standard Dimensions



Standard Specifications

Mechanical Performance

Controlling range of operating lever :

- 2-dimensional coordinate type : Approx. ±22° ~±26° omni-direction from center position.
- 3-dimensional coordinate type : Approx. ±45° ~±50°operation from center position of knob in addition to the operating range of 2-dimensional coordinate type. Operating forceStandard spring return device

: Automatically return to center X, Y directions : Approx. 2 ~12N (200~1,200gf) Z_direction : Approx. 20 ~ 85mN • m (200~ 850qf.cm)

Operating temperature range : -20°C~+65°C Vibration : 10~55Hz 98m/s² **Shock :** 294m/s²

Life expectancy: Approx.5,000,000 operations. Mass: 2-dimensional coordinate type :

Approx. 650g 3-dimensional coordinate type : Approx. 750q

Terminal Connection Diagram

1 (yellow) 3 (green) For X-axis : + direction For _o →Y-axis : + direction 2 (red) Z-axis : CW direction For

Electrical Performance

Potentiometer mounted : 90JA type : SFCP22E, 10k Ω ±15%, 0.2W, independent linearity tolerance ±3% (conductive plastic resistive element), electrical rotating angle for X and Y axis : Äpprox. 44° 90JB type : Special resistive element is exclusively used for 90JB series:10k 15%,0.2W, Independent linearity tolerance 3% (conductive plastic resistive element), Electrical rotating angle for X and Y axis : Approx. 44°. In case of 90JA and 90JB with 3-dimensional coordinate Z-axis potentiometer-inside-knob incorporated type, the following potentiometer is used : SFCP22AC, 10k Ω ±15%, 0.3W, Independent linearity tolerance ±3%, Electrical rotating angle : Approx. 90°. Output smoothness: Below 0.2% against input voltage. Contact resistance variation : Below 5% C.R.V. Resolution : Essentially infinite. Dielectric strength: 1 minute at 500 V.A.C. Insulation resistance : Over 1,000 MΩ at 500 V D C

Special Specifications Available For outdoor applications, please use model 90JA series.





90JAM-YO-20R2G (Standard) (2-dimensional coordinate type)

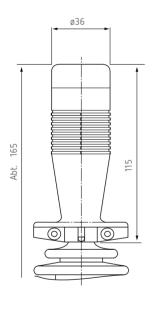
,**90JBM-Y0-20R2G** (Standard) (2-dimensional coordinate type)

Specially Ordered Versions for Z axis

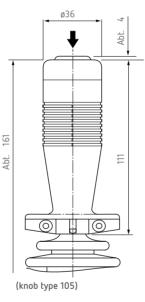
The following versions are available to Z axis knob for both models 90JAM and 90JBM.

(Unit : mm)

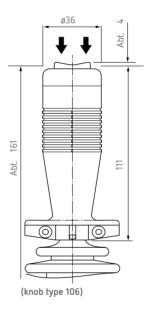
Standard knob



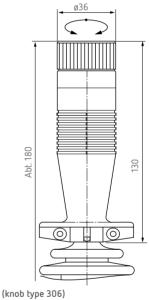




With rocker-switch on the top of knob S90JAM-Y0-21R2G S90JBM-Y0-21R2G







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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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