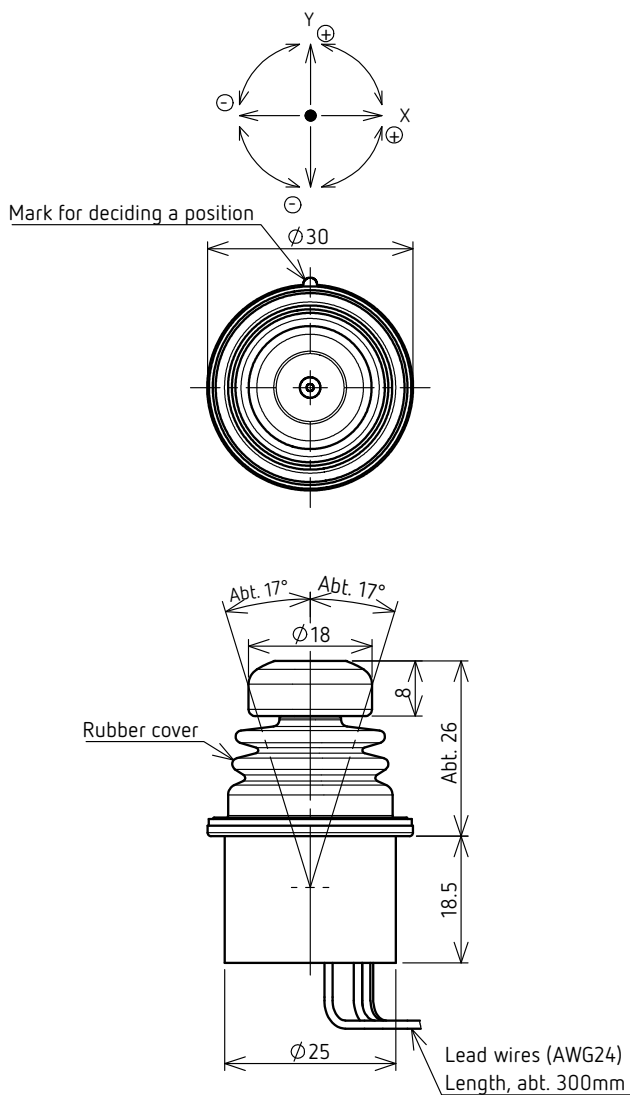
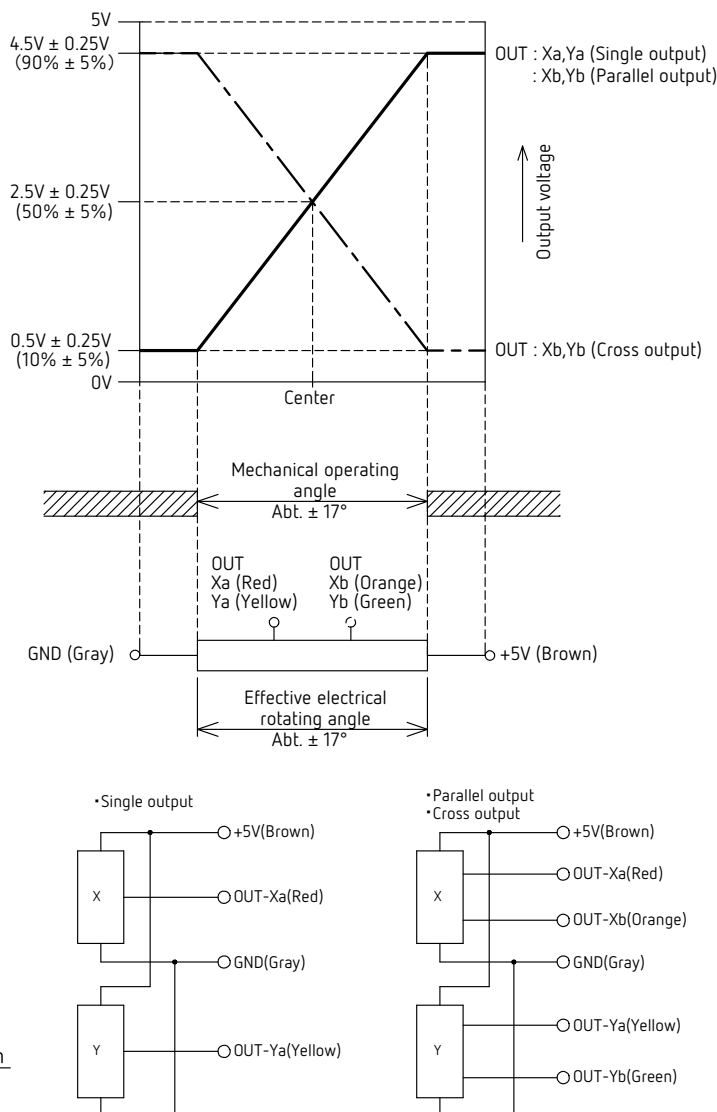


**DIRECTION OF LEVER OPERATION (O TYPE)**



**OUTPUT CHARACTERISTICS**



■ Mechanical Specifications	
<b>Controlling range of operating lever</b>	Omni-directionally approx $\pm 17^\circ$ from center position
<b>Operating force</b>	Spring return device (Automatically return to center) X&Y directions: Approx 1N ~ 2.5N
<b>Operating temperature range</b>	$-20^\circ\text{C} \sim +60^\circ\text{C}$
<b>Vibration</b>	10Hz ~ 55Hz 98m/s <sup>2</sup>
<b>Shock</b>	294m/s <sup>2</sup>
<b>Mechanical life expectancy</b>	Approx 2,000,000 operations
<b>Mass</b>	Single output type: Approx 22g Dual output type: Approx 24g
■ Electrical Specifications	
<b>Applied voltage</b>	D. C. 5V $\pm 10\%$
<b>Effective output</b>	0.5V ~ 4.5V
<b>Electrical rotating angle</b>	X&Y directions: Approx $\pm 17^\circ$ (Approx 34°)
<b>Independent linearity tolerance</b>	$\pm 3\%$ FS
<b>Load resistance</b>	Over 10k $\Omega$
<b>Dielectric strength</b>	1 minute at A. C. 500V
<b>Insulation resistance</b>	Over 1,000M $\Omega$ at D. C. 500V
<b>EMS durability</b>	100V/m (80MHz ~ 1GHz 1kHz sine-wave 80% AM modulation)
<b>ESD durability</b>	$\pm 8\text{kV}$ contact $\pm 15\text{kV}$ aerial discharge (Based on IEC61000-4-2)