


# JW30H Series

## Single Axis Joystick Controller (Hall Effect, Thumb Controller)



- **Single Axis**
- **Contactless**
- **Dual output options**
- **IP65**
- **Infinite Resolution**
- **5,000,000 Operations Life**
-  **RoHS**

### Electrical Data (Note 1)

Electrical Travel	30° (±5°)
Operating Voltage	5VDC ±10%
Output Voltage Range	10% ~ 90% Vin (0.5V ~ 4.5V @ 5VDC input)
Current Consumption	7mA (dual output; 14mA)
Independent Linearity Tolerance	±3% FS
Load Resistance	10k Ω min.
Resolution	Infinite
Center Return Accuracy	50% ±3%
Insulation Resistance	> 100M Ω at 250VDC
Dielectric Strength	1 minute at 250VAC
Drift at Center Position	< ±0.9% Vout • FS
EMC Durability	100V/m
ESD Durability	±8kV contact discharge/ ±15kV aerial discharge (IEC 61000-4-2)

### Mechanical Data (Note 1)

Mechanical Travel	±15° ~ ±19° from center position
Operating Force	Approx. 24mN • m ~ 30mN • m (D type knob; 49mN • m ~ 60mN • m)
Operating Temperature	-20°C ~ +60°C
Vibration	10G 10 to 55Hz
Shock	30G
Life Expectancy	> 5,000,000 random operations
Protection Grade	IP65
Weight	Approx. 20g

#### • **Special Specifications Available**

Dual output (cross or parallel), special outputs, increased operating force (except for D type knob), special knobs


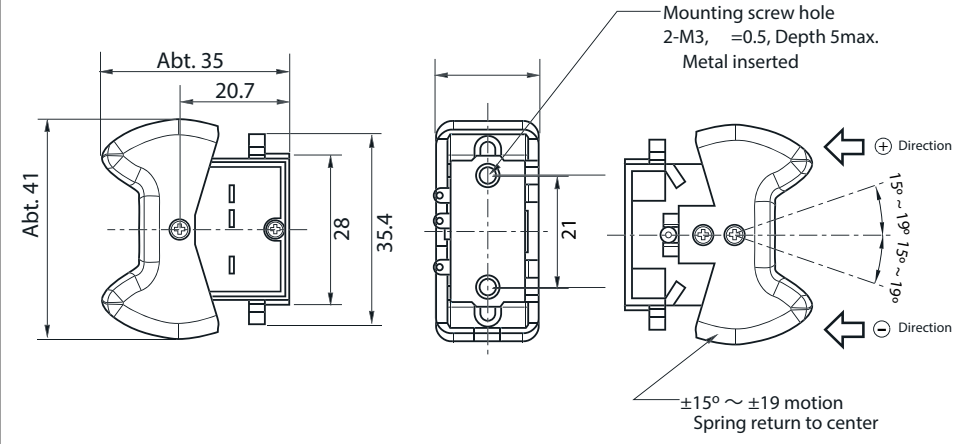
Note 1: Customers should test and verify device performance in any given application. Specifications are subject to change without notice.

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### Dimensions (mm)

**Type JW30H**


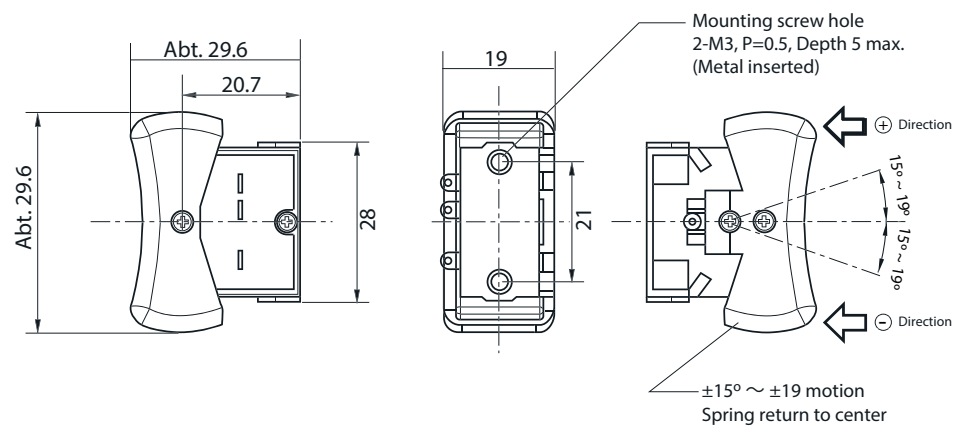
Mounting screw hole  
2-M3,  $\phi=0.5$ , Depth 5max.  
Metal inserted

$\pm 15^\circ \sim \pm 19^\circ$  motion  
Spring return to center

Abt. 35  
20.7  
Abt. 41  
28  
35.4  
21

$\oplus$  Direction  
 $\ominus$  Direction

**Type JW30FH**


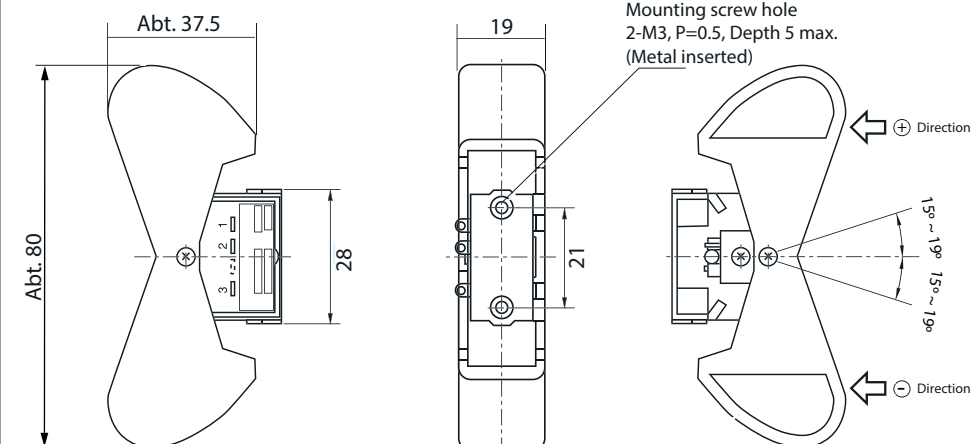
Mounting screw hole  
2-M3, P=0.5, Depth 5 max.  
(Metal inserted)

$\pm 15^\circ \sim \pm 19^\circ$  motion  
Spring return to center

Abt. 29.6  
20.7  
Abt. 29.6  
28  
19  
21

$\oplus$  Direction  
 $\ominus$  Direction

**Type JW30DH**

Mounting screw hole  
2-M3, P=0.5, Depth 5 max.  
(Metal inserted)

$\pm 15^\circ \sim \pm 19^\circ$  motion  
Spring return to center

Abt. 37.5  
Abt. 80  
28  
19  
21

$\oplus$  Direction  
 $\ominus$  Direction

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### Electrical Characteristics

