

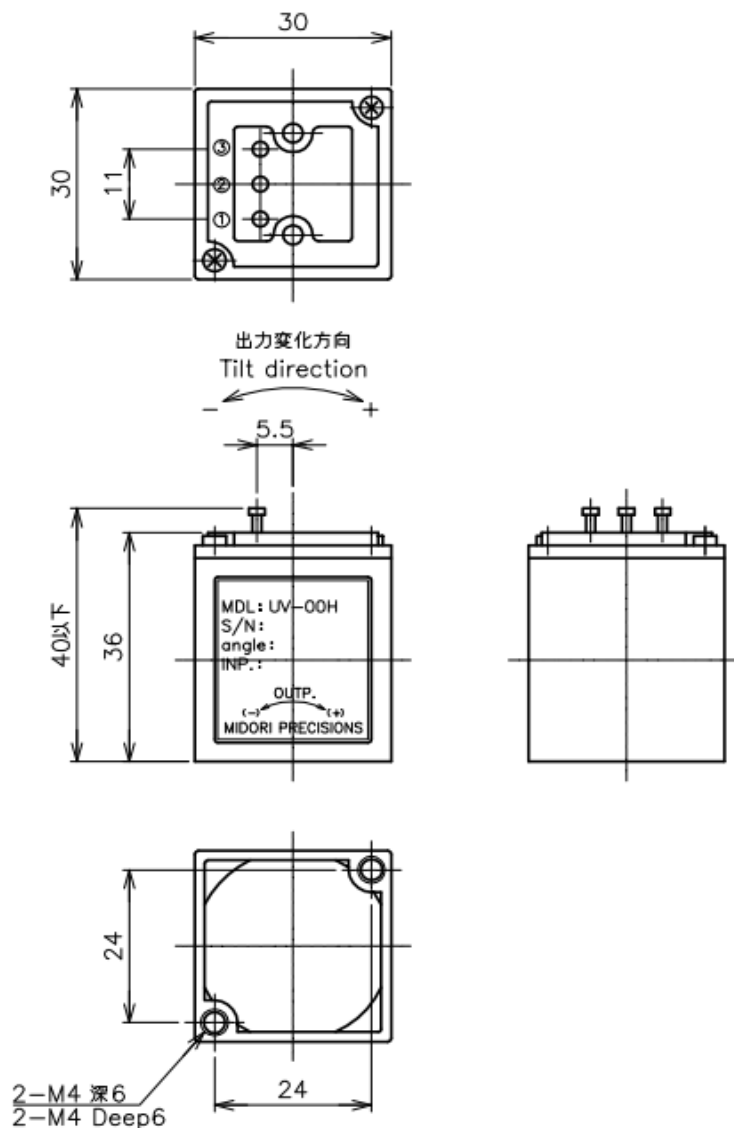
Contactless Hall-IC Tilt Angle Sensor

UV Series - UV-00H

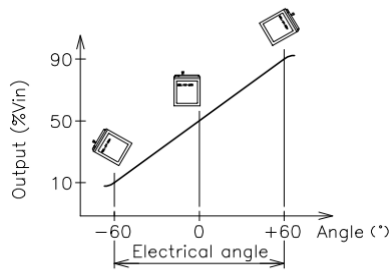
- Contactless Hall-IC Tilt Angle Sensor
- Unique pendulum hybridized weight and buoy-float.
- Effective Electrical Tilt Angle :
 - ±30°
 - ±45°
 - ±60°(Standard)
- Zero-based linearity : ±2%FS(FS=60°), ±4%FS(FS=120°)
 - ±2%FS(Effective Electrical Tilt Angle : ±30°)
 - ±4%FS(Effective Electrical Tilt Angle : ±45°, ±60°)

【Material】

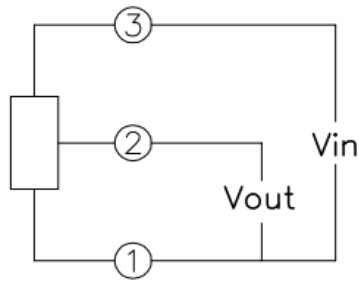
- Housing : PBT

Dimension [mm]


■ Output Characteristics

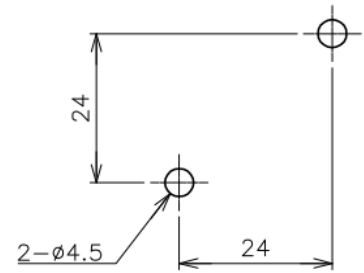


■ Schematic



• ①, ②, ③ : Terminal No.

■ Mounting



【Model No.】	UV-00H
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【Electrical Data】		
Effective Electrical Tilt Angle	$\pm 60(120^\circ)$	$^\circ$
Tilt Sensitivity	MAX. 0.4($\pm 30^\circ$) MAX. 0.8($\pm 60^\circ$)	$^\circ$
Output Sensitivity	MIN. 0.54	$\%Vin/^\circ$
Index Point	50 \pm 5	$\%Vin$
Zero-based Linearity	$\pm 2(FS=60^\circ)$ $\pm 4(FS=120^\circ)$	$\%FS$
Input Voltage	DC 5 \pm 0.5	V
Load Resistance	MIN. 10	k Ω
Supply Current	MAX. 10	mA
Insulation Resistance	MIN. 100 /DC50	M Ω
Temp. Characteristics -20 $^\circ$ C \sim 80 $^\circ$ C (Reference Temp. 25 $^\circ$ C)	At 0 $^\circ$: $\pm 2^\circ$ At $\pm 60^\circ$: $\pm 6^\circ$	

【Mechanical Data】		
Response time	0.5(Step Response) Approx.	Sec.
Mechanical Angle	130	$^\circ$
Mass	35 Approx.	g

【Mechanical Data】		
Category Temperature Range	-20 \sim 80	$^\circ$ C
Storage Temperature Range	-20 \sim 80	$^\circ$ C

■ Handling Instruction

- This product may be influenced from external magnetic field.
- Use this sensor in the place where is protected from ESD.