

Contact (Wire Wound) Angel Sensor

HP-16 Series

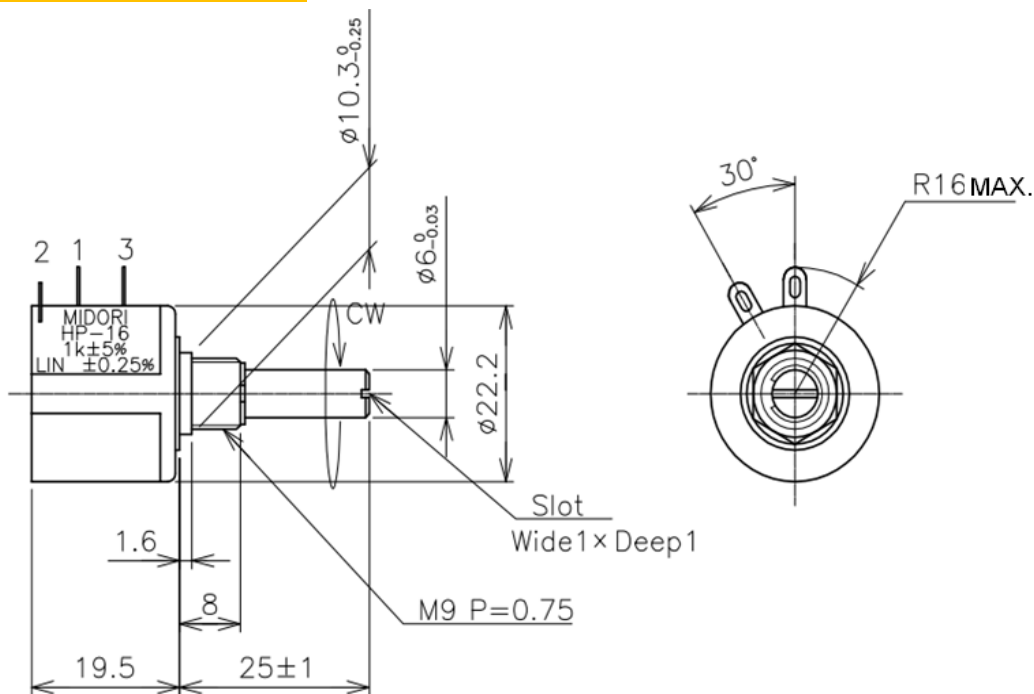


- Contact Wire Wound Angle Sensor (Multi-turns)
- Effective Electrical Travel : 3600° (10-Turn)
- Independent Linearity : ±0.25%
- Bushing Mount
- This unit is used with counting dial D-12, D-14 and DM-15

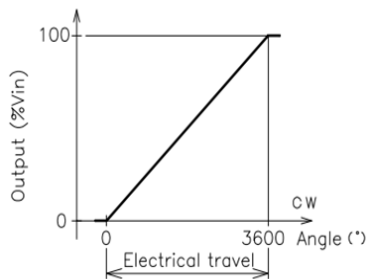
[Material]

- Housing : Nylon, Copper Alloy
- Shaft : Stainless Steel

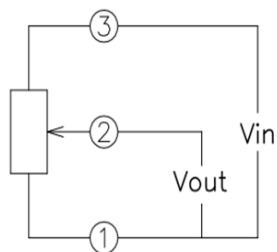
Dimension (mm)



Output Characteristics



Schematic



• ①, ②, ③: Terminal No.

[Model No.]	HP-16
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Total Resistance		
Total Resistance	Resolution	Input Voltage
0.1K Ω	0.060%	12V (40°C)
0.2K Ω	0.037%	20V (40°C)
0.5K Ω	0.031%	30V (40°C)
1K Ω	0.025%	40V (40°C)
2K Ω	0.021%	60V (40°C)
5K Ω	0.016%	80V (40°C)
10K Ω	0.017%	100V (40°C)
20K Ω	0.015%	150V (40°C)
50K Ω	0.009%	200V (40°C)
100K Ω	0.007%	200V (40°C)

Electrical Specifications	
Effective Electrical Travel	3600°
Total Resistance Tolerance	±5%
Independent Linearity	±0.25%
Rated Dissipation	2W (40°C)
Insulation Resistance	100M Ω /DC1000V MIN.
Dielectric Strength	AC1000V/ 1minute
TC of Resistance	20ppm/K MAX.
End Output Voltage	0.25% MAX.
Equivalent Noise Resistance	100 Ω MAX.

Environmental Specifications	
Total Mechanical Travel	3600° +10°, 0°
Torque	(Starting Torque) 3.4mN · m MAX. (Running Torque) 2.5mN · m MAX.
Mass	Approx. 22g
Stopper Strength	540mN · m MIN.

■ Accessories

M9 Nut

Internal Toothed Lock Washer 1 piece each

■ Handling Instruction

- Winding resistance may oxidizes and causes sliding noise even this sensor is unused for a long time.
- Miswiring might cause burnout of resistive element.
- To reduce sliding noise, add load resistance should be more than 100times and less than 1000times of total resistance.
- Slight continuous vibration such as dither might cause lifetime of the sensor.
- To avoid damage of stopper, do not rotate the shaft at the end with excessive force.