Contact (Wire Wound) Angle Sensor

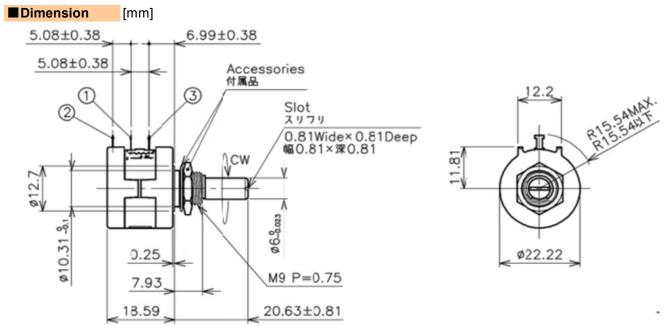
HP-18 Series

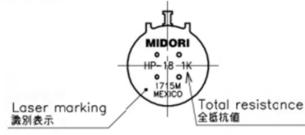


- · Contact Wire Wound Angle Sensor (Multi-turns Sensor)
- · Effective Electrical Travel: 3600° (10-turn)
- ·Independent Linearity :±0.25%
- ·Bushing Mount
- ·This unit is used with counting dial D-12, H-22, H-46 and DM-15

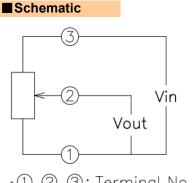
[Material]

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





■Output Characteristics 100 Output (%Vin) 0 -3600 Angle (°) Electrical travel



•1), 2), 3): Terminal No.





[Model No.] HP-18

[Total Resistance]

Total Resistance	Resolution	Input Voltage
1kΩ	0.029%	40V(40°C)
2kΩ	0.023%	60V(40°C)
5kΩ	0.025%	80V(40°C)
10kΩ	0.020%	100V(40°C)
20kΩ	0.019%	150V(40°C)

[Electrical Specifications]

Effective Electrical Travel	3600	o
Total Resistance Tolerance	±5	%
Independent Linearity	±0.25	%
Rated Dissipation	2(40°C)	W
Insulation Resistance	MIN. 1000/DC500V	ΜΩ
Dielectric Strength	AC1500/1 Minute	V
Temperature Coefficient of Resistance	MAX. 50	ppm/K
End Output Voltage	MAX. 0.1	%
Equivalent Noise Resistance	MAX. 100	Ω

[Mechanical Specifications

Total Mechanical Travel	3600 +10, 0	0
Torque	MAX. 8.5	m N·m
Mass	Approx. 19	g
Stoper Strength	MIN. 450	m N·m
Bucklash	MAX. 1	0

■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.

