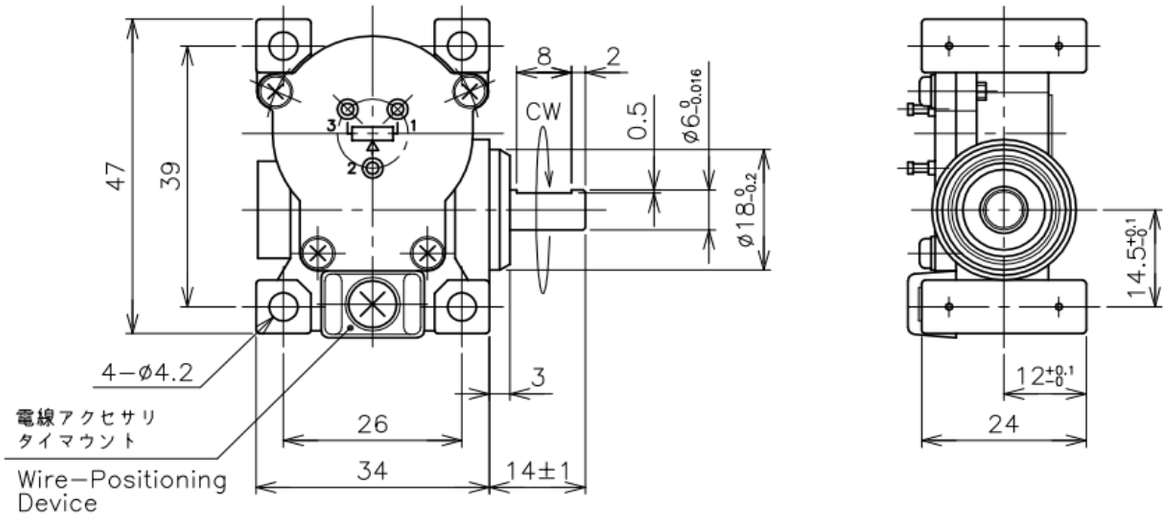
Conductive Plastic Angle Sensor

CP-2FWP-10S Series

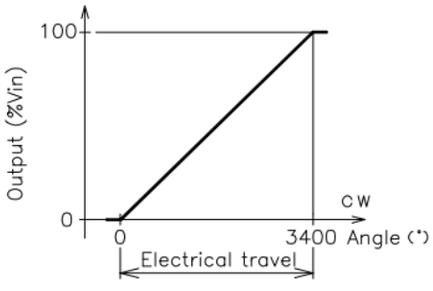
・Conductive Plastic Multi-Turn Angle Sensor
・Effective Electrical Travel ：3400° (10-turn)
・Independent Linearity ： ±1.5%
・Dust and Drip Proof：IP65

【Material】
●Housing ： Aluminum
●Shaft ： Stainless Steel
●Bearing ： Stainless Steel

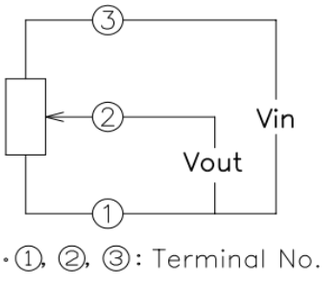
■Dimension [mm]



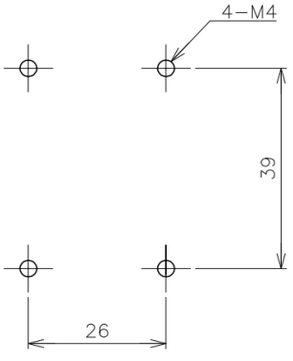
■Output Characteristics



■Schematic



■Mounting



MIDORI PRECISIONS
URL: http://www.midori.co.jp
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【Model No.】	CP-2FWP-10S

【Electrical Specifications】		
Effective Electrical Travel	3400 +20, -30	°
Total Resistance	1, 2, 5	kΩ
Total Resistance Tolerance	±20	%
Independent Linearity	±1.5	%
Rated Dissipation	0.5/50℃	W
Output Smoothness	MAX. 0.1	%
Insulation Resistance	MIN. 100/DC1000V	MΩ
Dielectric Strength	AC1000/1 Minute	V
Temperature Coefficient of Resistor	±400	ppm/K

【Mechanical Specifications】		
Gear Ratio	10:1 (10-turn)	
Torque	MAX. 25	mN·m
Repeatability	MAX. 0.5 (Including Backlash)	%
Thrust Load Tolerance	3	N
Radial Load Tolerance	5	N
Mass	Approx. 55	g

【Environmental Specifications】		
Category Temperature Range	-40 - +100	℃
Storage Temperature Range	-40 - +100	℃
IP Level	IP65	

■Handling Instruction

・To avoid burnout of resistive element, do not supply more than 1mA current to terminal 2.
・To remain IP level of CP-2FWP-xxS, please sealed terminal area by potting.
・In the case wear debris come into contact with the surface of resistive element, it might cause electrical noise.
・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 short lifetime of the sensor.

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