

Conductive Plastic Angle Sensor

CP-45F Series CP-45F, CP-45FB



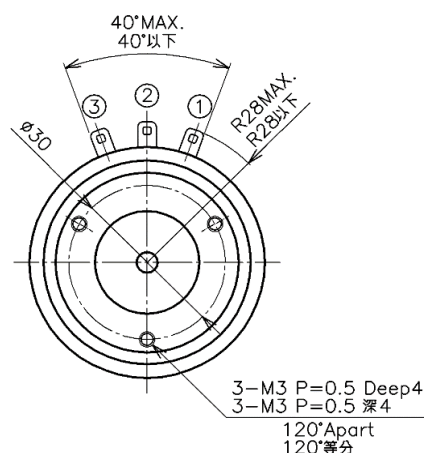
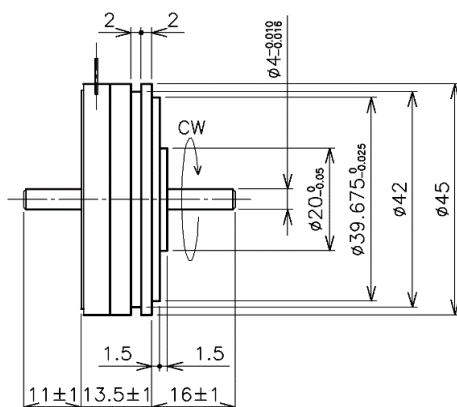
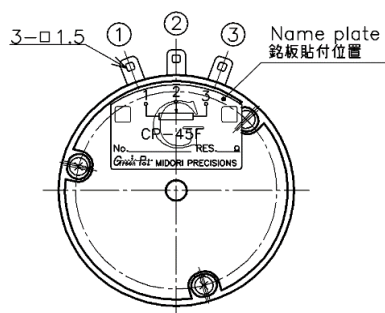
- Conductive Plastic Angle Sensor
- Prolonged lifetime - 50 Mil. Revolution min.
- Effective Electrical Travel : 350°
- Independent Linearity : $\pm 0.1\%$
- Retio Output
- Servo Mount and Screw Mount

【Options】

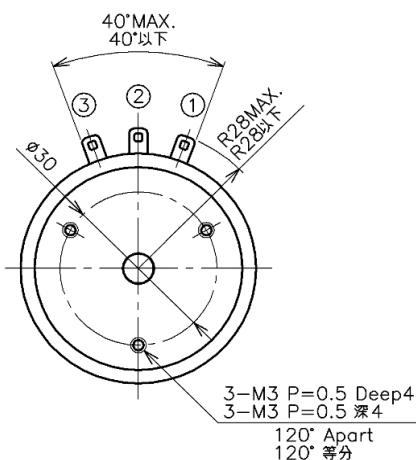
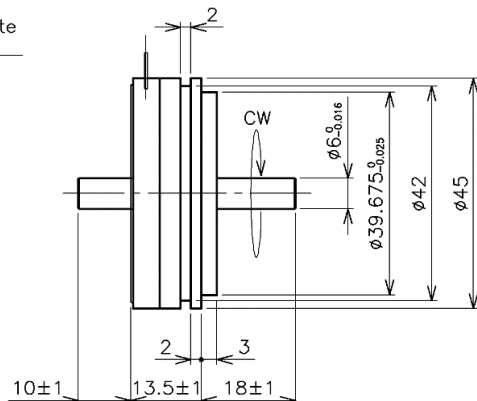
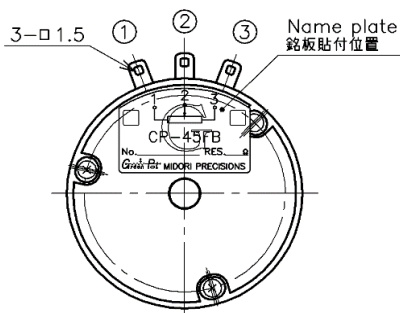
- Shaft L2 side 0mm. (w/Screw driver slot)
- Additional Center Tap :
C.T(A) ... No shorted angle
C.T(B) ... Shorted on Tap (Shorted angle 3°approx.)

■ Dimension [mm]

CP-45F



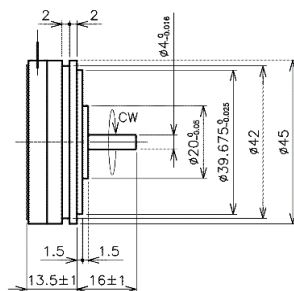
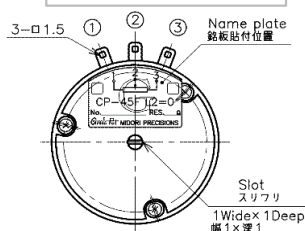
CP-45FB



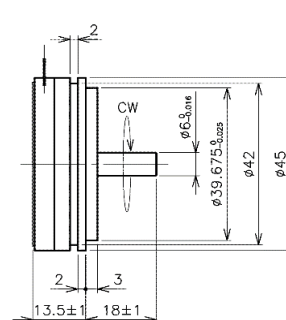
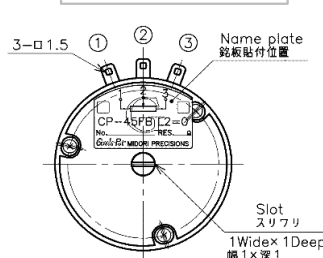
[mm]

Option : Shaft L2=0 type

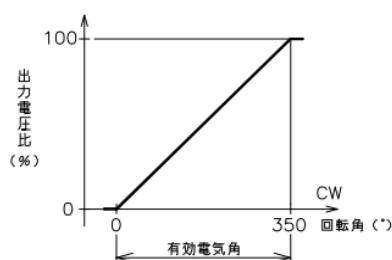
CP-45F L2=0



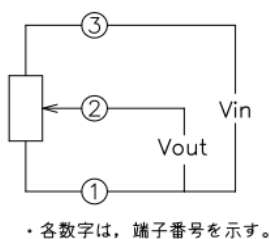
CP-45FB L2=0



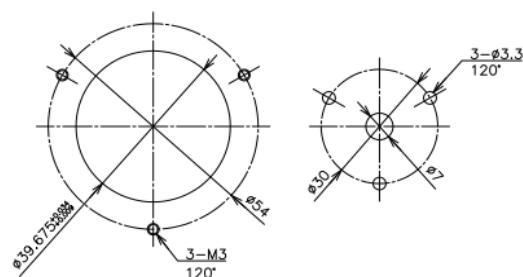
■ Output Characteristics



■ Schematic



■ Mounting



Servo Mount

Screw Mount

【Model No.】	CP-45F (Shaft Φ4mm)	CP-45FB (Shaft Φ6mm)
--------------------	------------------------	-------------------------

【Electrical Specifications】

Effective Electrical Travel	350 +3, -2	°
Total Resistance	(Standard)1, 2, 5, 10 (Option) 0.5, 20	k Ω
Total Resistance Tolerance	±15	%
Independent Linearity	±0.1	%
Rated Dissipation	3/70°C	W
Output Smoothness	MAX. 0.1	%
Insulation Resistance	MIN. 100/DC1000V	MΩ
Dielectric Strength	AC1000/1 Minute	V
Temperature Coefficient of Resistance	±400	ppm/K

【Mechanical Specifications】

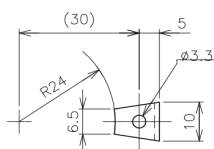
Total Mechanical Travel	360 Endless	°
Torque	MAX 1.8	mN·m
Thrust Load Tolerance	2	N
Radial Load Tolerance	6	N
Mass	51	g

【Environmental Specifications】

Life Cycles	50 Million	Cycle
Category Temperature Range	-40~+120	°C
Storage Temperature Range	-40~+120	°C
Vibration	200m/s2 2000Hz 3 axis 2 hours each	
Shock	600m/s2 11ms 6 directions 3 times	

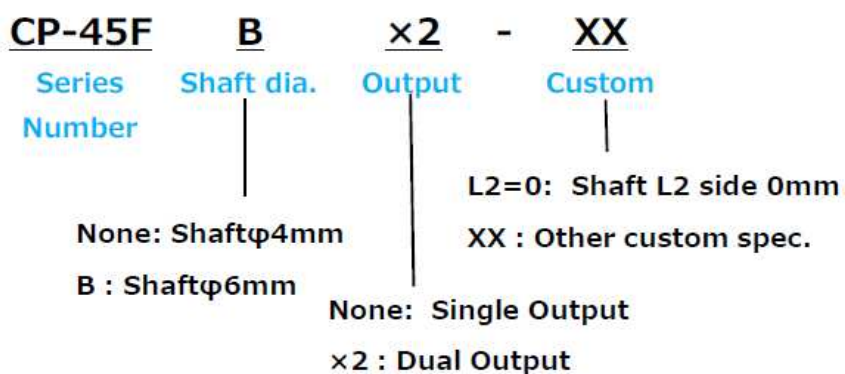
■ Accessories

Mounting Cleats : 3 pieces



t=1.2

【CP-45F Series Model Number Designation】



■ Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal 2.
- 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 resistor
- Slight continuous vibration such as dither might cause short lifetime of the sensor.