



# Selection Guide of CP-45F



## Contact type potentiometer using Conductive Plastic Element

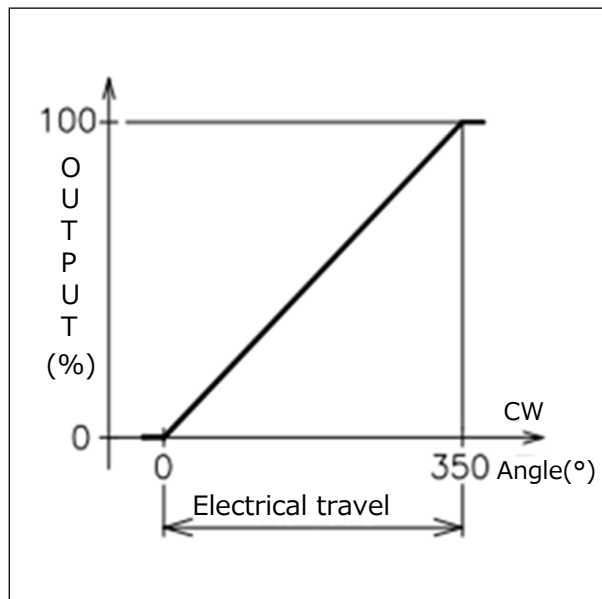
| Subject               |                                  | Specifications                                                          |
|-----------------------|----------------------------------|-------------------------------------------------------------------------|
| Basic Characteristics | Dimension/Mass                   | Φ45×13.5mm / 51g approx.                                                |
|                       | Effective Electrical Travel      | 350° +3° , -2°                                                          |
|                       | Independent Linearity            | ±0.1%                                                                   |
|                       | Total Resistance (Input voltage) | 1kΩ (50V max.) , 2kΩ (71V max.) ,<br>5kΩ (112V max.) , 10kΩ (159V max.) |
|                       | Total Mechanical Travel          | 360° Endless                                                            |
|                       | Output                           | Ratio metric                                                            |
| Electrical            | Output Range                     | Ratio metric output 0~100%                                              |
|                       | Resolution                       | Infinitesimal                                                           |
|                       | Rated Dissipation                | 3W / 70°C                                                               |
|                       | Temp. Coefficient of Resistance  | ±400ppm / K                                                             |
| Environmental         | Life                             | MIN. 50 Million Revolution                                              |
|                       | Category Temperature Range       | -40~+120°C                                                              |
|                       | Vibration                        | 200m/s <sup>2</sup> 2000Hz 3 axes 2 hours each                          |
|                       | Shock                            | 600m/s <sup>2</sup> 11ms 3 times each in 6 directions                   |

\* Other CP-45F series line-up  
"Multi-turn type", "Water Drip Proof type", and "Wire Extension type".

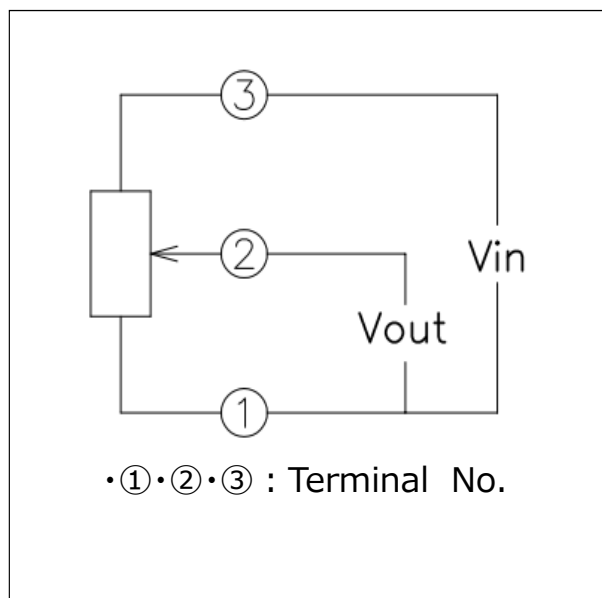
## Model Number Designation

|               |                         |                                          |          |                                                     |                  |
|---------------|-------------------------|------------------------------------------|----------|-----------------------------------------------------|------------------|
| <b>CP-45F</b> | <b>B</b>                | <b>× 2</b>                               | <b>-</b> | <b>XX</b>                                           | <b>1KΩ</b>       |
| Series Number | Shaft dia.              | Output                                   |          | Custom                                              | Total Resistance |
|               | None : Φ4mm<br>B : Φ6mm | None : Single Output<br>×2 : Dual Output |          | L2=0 : shaft L2 side 0mm<br>XX : Other custom spec. | 1,2,5,10KΩ       |

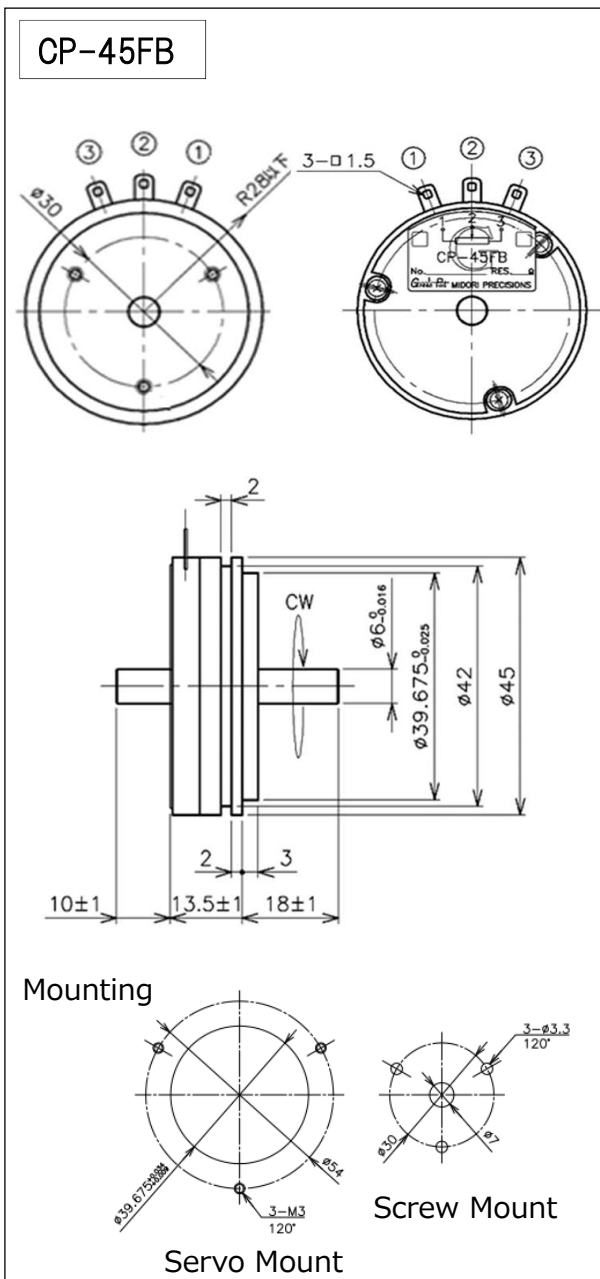
## Output Characteristics



## Schematic



## Dimension



## We are here for you. Addresses and Contacts.

---

### Headquarter Switzerland:

Angst+Pfister Sensors and Power AG  
Thurgauerstrasse 66  
CH-8050 Zurich  
Phone +41 44 877 35 00  
[sensorsandpower@angst-pfister.com](mailto:sensorsandpower@angst-pfister.com)

### Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH  
Edisonstraße 16  
D-85716 Unterschleißheim  
Phone +49 89 374 288 87 00  
[sensorsandpower.de@angst-pfister.com](mailto:sensorsandpower.de@angst-pfister.com)

### Office North America:

Angst+Pfister North America Inc.  
10391 Brecksville Rd.  
US-Brecksville, OH 44141  
Phone +1 440 375-5212  
[info.apus@angst-pfister.com](mailto:info.apus@angst-pfister.com)

---

Scan here and get an overview of personal contacts!



<https://sensorsandpower.angst-pfister.com/en/>

---