

## Linear Motion Conductive Plastic Potentiometer

Series CFL



- Open Frame - Economical
- Shaftless - Sliding Cursor
- 50mm to 1000mm Stroke Lengths
- Up to 20 Million Strokes Life
- Infinite Resolution



Electrical Data (Note 1)	Model:	CFL50	CFL100	CFL200	CFL300	CFL400	CFL500	CFL1000
Electrical Stroke (mm ±1)		50	100	200	300	400	500	1000
Resistance Values (Ω)		2k~10k			5k~20K	5k~100k		10k~200k
Resistance Tolerance		±20% (10% optional)						
Independent Linearity Tolerance		±0.1%	±0.5% (±0.1% optional)					
Power (@ 70°C)		1.0W	1.5W	2.0W	2.5W	3.0W	4.0W	6.0W
Resolution		Essentially infinite						
Output Smoothness		< 0.1% against input voltage						
Contact Resistance Variation		< 2% C.R.V.						
Temperature Coefficient Resistance		400 ppm/°C						
Insulation Resistance		> 1000M Ω at 500VDC						

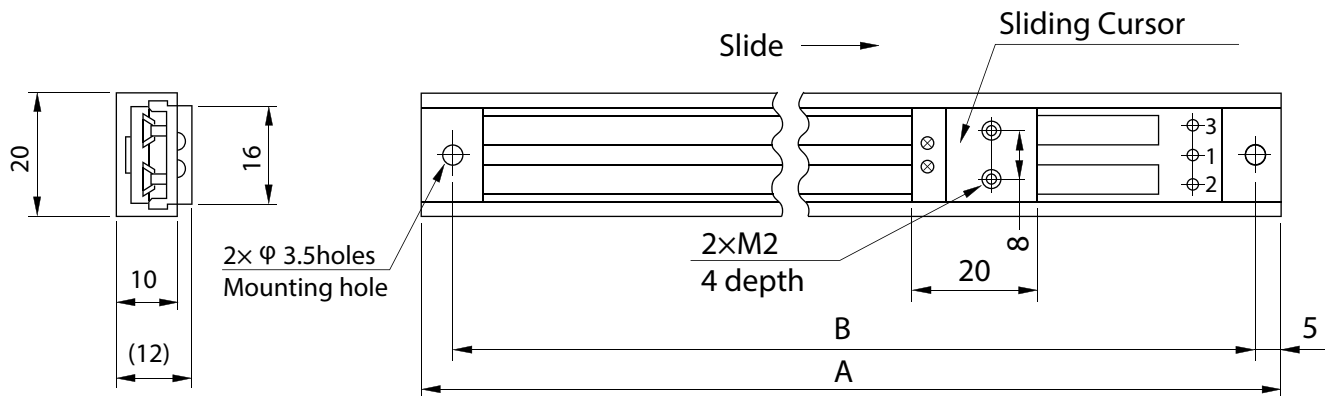
Mechanical Data (Note 1)	Model:	CFL50	CFL100	CFL200	CFL300	CFL400	CFL500	CFL1000
Mechanical Stroke*		53	103	203	303	403	505	1005
Weight		25g	40g	70g	100g	130g	160g	300g
Max. Operating Friction		< 0.2N (20gf)						
Life Expectancy		20,000,000 reciprocating motions						
Operating Temperature		-30°C to +105°C						
Vibration		15G / 10Hz to 2,000Hz 12 hours						
Shock		50G, 11ms, 18 times						
Protection Grade		IP40						
Housing Material		Aluminum						

\*Mechanical stroke values are approximate. Because there is no mechanical stopper at the ends, please be careful so that the sliding wiper contact does not leave the element track. OPTION: You can order CFL series with mechanical end stops.

Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of +15°C ~ +35°C. Specifications are subject to change without notice.

**Dimensions (mm)**

**Series CFL**



Stroke Length	50	100	200	300	400	500	1000
Housing Length (A)	100	150	250	350	450	550	1050
Mounting Hole Center (B)	90	140	240	340	440	540	1040

