

REF. NO: MPCL 98CAT PG72

REVISION

C.O.N	SYM	DESCRIPTION	DATE	DRAWN	APPR'D

**GENERAL:**

MODELS LP-10FBS-3 AND LP-20FBS-3 ARE WATERPROOFED, CONDUCTIVE PLASTIC, LINEAR MOTION POTENTIOMETERS, WITH A RETURN SPRING. THEIR STURDY AND PRECISION CONSTRUCTION ALLOWS THE UNITS TO BE SUITABLE FOR APPLICATIONS IN WET, OILY, DUSTY OPERATING ENVIRONMENTS.

**ELECTRICAL SPECIFICATIONS:**

<b>ELECTRICAL STROKE:</b>	
LP-10FBS-3	10 mm
LP-20FBS-3	20 mm
<b>TOTAL RESISTANCE:</b>	
LP-10FBS-3	0.5, 1 KOHMS
LP-20FBS-3	0.5, 1, 2 KOHMS
<b>TOTAL RESIS. TOLERANCE:</b>	
	±20%
<b>LINEARITY (INDEPENDENT):</b>	
	±1% (±0.5% AVAILABLE)
<b>REPEATABILITY:</b>	
	0.03%
<b>POWER RATING:</b>	
LP-10FBS-3	0.3 WATTS @70°C
LP-20FBS-3	0.6 WATTS @70°C

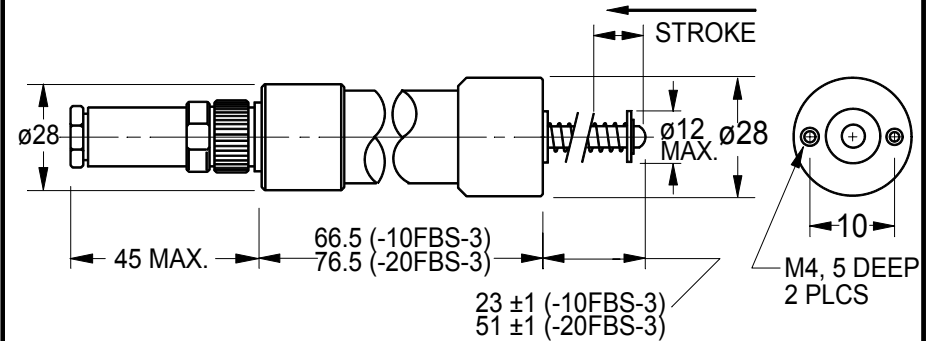
<b>INSULATION RESISTANCE:</b>	100 meg OHMS MIN. @500 Vdc
<b>DIELECTRIC STRENGTH:</b>	500 Vrms, 50/60Hz, for 1 MINUTE
<b>RESISTANCE TEMP. COEFFICIENT:</b>	400 ppm/°C

**MECHANICAL SPECIFICATIONS:**

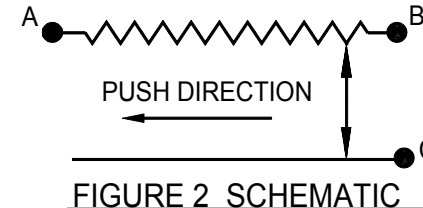
<b>MECHANICAL STROKE:</b>	(ELECTRICAL STROKE) + (2 ±1)mm
<b>FRICTION (SPRING FORCE):</b>	1.8 kgf MAX.
<b>MOUNTING HOLES:</b>	REFER TO FIGURE 1
<b>WEIGHT:</b>	LP-10FBS-3 APPROX. 80 g
	LP-20FBS-3 APPROX. 100 g

**ENVIRONMENTAL SPECIFICATIONS:**

<b>OPERATING TEMPERATURE:</b>	-40° TO +100°C
<b>VIBRATION:</b>	10 Gs, 500 Hz
<b>SHOCK:</b>	50 Gs, 11 mS
<b>LIFE:</b>	5 MILLION CYCLES MIN.
<b>SEAL:</b>	WATERPROOFED



**FIGURE 1 OUTLINE DIMENSIONS**



**FIGURE 2 SCHEMATIC**



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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN mm(in).

TOLERANCES:  
ANGLES ±1.5°  
≤10 mm: ±0.25  
<100 mm: ±0.5  
≥100 mm: ±1

DRAWN	T.TSUGAWA	DATE	08/06/98
CHECKED		DATE	
APPROVED		DATE	
APPROVED		DATE	
SCALE:			

**SPECIFICATION DWG**  
FOR  
MODEL LP-10FBS-3  
LP-20FBS-3  
**SEALED, LINEAR POT.**  
( WITH RETURN SPRING )

FILE: LP-10FBS-3, LP-20FBS-3

**Midori America Corporation**  
FULLERTON, CA

**B-MAC-B23**

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