

10741

REF. NO:

**GENERAL DESCRIPTION:**

MODEL LP-xxFQ IS A MINUTURE, CONDUCTIVE PLASTIC LINEAR MOTION POTENTIOMETER DESIGNED FOR HIGH PERFORMANCE AND RELIABILITY IN ITS COMPACT LIGHT WEIGHT PACKAGE. ELECTRICAL CONNECTIONS ARE MADE WITH PIGTAILED, 150mm LONG INSULATED LEADS.

**ELECTRICAL SPECIFICATIONS:**

ELECTRICAL TRAVEL: SEE TABLE 1  
 TOTAL RESISTANCE: 0.5 or 1 KOHM ±20% (FOR LP-10FQ, LP-20FQ)  
 0.5, 1, or 2 KOHMS±20% (FOR LP-30FQ)Ⓜ  
 LINEARITY, INDEPENDENT: ±1%  
 OUTPUT SMOOTHNESS: 0.1% MAX.  
 POWER RATING: SEE TABLE 1  
 TEMPERATURE COEFFICIENT: ±400 ppm MAX.  
 INSULATION RESISTANCE: 100 meg OHMS @ 500Vdc  
 DIELECTRIC STRENGTH: 500 Vrms @ 50/60 Hz.

**MECHANICAL SPECIFICATIONS:**

MECHANICAL STROKE: SEE TABLE 1  
 FRICTION: 40 g MAX  
 WEIGHT: SEE TABLE 1

**ENVIRONMENTAL SPECIFICATIONS:**

OPERATING TEMPERATURE: -25°C to +80°C  
 VIBRATION: 15 G's THROUGH 1,000 Hz  
 SHOCK: 50 G's  
 LIFE EXPECTANCY: 10 MILLION OPERATIONS MIN.

**MARKING:**

UNITS SHALL BE MARKED WITH MODEL NUMBER, RESISTANCE VALUE, AND SERIAL NUMBER ( OR DATE CODE ).

**MATERIALS:**

HOUSING: NICKEL PLATED BRASS  
 SHAFT: STAINLESS STEEL  
 SIDE PLATES: THERMOSET PLASTIC, GLASS ENFORCED  
 INSULATED WIRES: #26AWG, PVC INSULATION SLEEVE ( UL1061 )

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN mm(in).  
 TOLERANCES:  
 ANGLES: ±1.5°  
 <10 mm: ±0.25  
 <100 mm: ±0.5  
 >100 mm: ±1

REVISION

C.O.N	SYM	DESCRIPTION	DATE	DRAWN	APPR'D
	A	1) M2.5 WAS M3.	12/02/97	TSUGAWA	
	B	1) MECH. STROKE WAS "ELECT.STROKE"±1 2) TOTAL RES.2k OHMS ADDED FOR LP-30FQ.	11/19/99	TSUGAWA	



**GUEMISA**  
 Sta. Virgilia 3-b ; 1ºF 28033 Madrid  
 Tfno.: 91 764 21 00 Fax.: 91 764 21 32  
 Email: info@guemisa.com

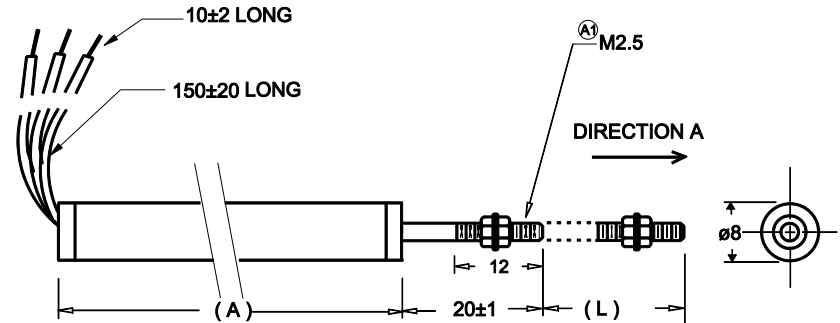


FIGURE1 OUTLINE DIMENSION

TABLE 1

MODEL NO.	POWER RATING	ELECT STROKE	BODY LENG. (A)	MECH. STROKE (L)	NOMINAL WEIGHT
LP-10FQ	0.3W @70DC	10 mm	47 mm	15 ±1 mm	11 g
LP-20FQ	0.6W @70DC	20 mm	57 mm	25 ±1 mm	13 g
LP-30FQ	0.9W @70DC	30 mm	67 mm	35 ±1 mm	15 g

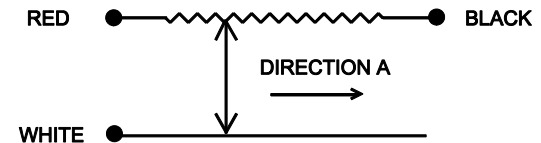


FIGURE 2 SCHEMATIC

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 10/14/92	SPECIFICATION DWG FOR MODEL LP-xxFQ LINEAR POTENTIOMETER	A-MAC-B29	B
CHECKED	DATE				
APPROVED	DATE				
APPROVED	DATE				
SCALE:	FILE: LP-xxFQ			1 OF 1	