



SPECIFICATION SHEET

ELECTRICAL CHARACTERISTICS	UNITS	VALUE
RESISTIVE ELEMENT	...	CONDUCTIVE PLASTIC
RESISTANCE VALUE	Ohms	1K ± 30% STANDARD
WIPE PROTECTION RESISTANCE	Ohms	800 ± 30%
INPUT VOLTAGE TYPICAL	VDC	5
INPUT VOLTAGE MAXIMUM	VDC	18
ABSOLUTE LINEARITY TOLERANCE... (IEC 60399)	±%	2 WITH REFERENCE TO INDEX POINT
ELECTRICAL FUNCTION ANGLE	DEGREE	78.5 ± 3
TOTAL RESISTANCE TRACK ANGLE	DEGREE	93 ± 3
POWER RATING @ 70° C	WATTS	0.5
NOMINAL SLOPE	V / DEGREE	0.054
MAXIMUM WIPE CURRENT	mAmps	1
SHORT TIME WIPE CURRENT ≤ 5 SEC.	mAmps	10
REPEATABILITY	...	BETTER THAN 0.5%
HYSTERIS	...	LESS THEN 0.5%

MECHANICAL CHARACTERISTICS :-

MECHANICAL ANGLE	DEGREE	122 (TENTATIVE)
ROTATIONAL LIFE (FULL / HALF)	STROKES	2.5 MILLION
ROTATIONAL LIFE (DITHER ±0.25°)	STROKES	15 MILLION
TORQUE (SPRING RETURN)	Nm	0.8 - 6

ENVIRONMENTAL CHARACTERISTICS :-

OPERATING TEMPERATURE	DEGREE C	-40° TO 120°C
PROTECTION CLASS	...	IP 65

BILL OF MATERIAL

SR.NO	DESCRIPTION	MATERIAL	QTY.
01	BODY	PBT (45%GF)	01
02	CAP	PBT (45%GF)	01
03	WIPE CARRIER	PBT (45%GF)	01
04	WIPE	PRECIOUS METAL	01
05	RESISTANCE TRACK	CONDUCTIVE PLASTIC ON HIGH TEMP. FILM	01
06	SPRING	STAINLESS STEEL	01
07	TERMINALS	BRASS WITH TIN PLATING	06
08	O-RING	NBR	01
09	SEAL	NBR	01
10	ENCAPSULATION RESIN	DR. BRK EPOXY (BLACK COLOR)	01
11	WIRES	FLRYB GRADE 0.5MM ²	03
12	SLEEVE	PVC SLEEVE OD 5.0 MM BLACK 90°C RATING	01
13	CONNECTOR	PBT	01
14	PRESSURE CLIP	STAINLESS STEEL	01
15	MOUNTING CLIP	MS WITH ZINC PLATING	01
16	CABLE TIE	NYLON 6	01

ALL DIMENSIONS ARE IN MM.

③	EPOXY RESIN COLOR AND MATERIAL CHANGED	22.04.12	SKK	JSP	Heat Treatment:	-
②	WIRE COLOR CODE ADDED AND MATERIAL INDICATED	19.04.12	SKK	JSP	Hardness:	
①	MODIFICATION	08.03.12	SKK	JSP	Surface Treatment:	
0000	FIRST ISSUE	04.02.12	SKK	JSP		
MOD NO.	MODIFICATION	DATE	DRN	CHK	SIGN	

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Material:	2009	NAME	DATE	TITLE:
-	DRN.	SKK	04.02.12	TPS
-	CKD.	JSP	04.02.12	
-	APPD.	VKM	04.02.12	

SCALE: 1:1

THIRD ANGLE

PART OF	CARBURETOR	Mod:
UNSPECIFIED TOLERANCES	2 Dec. Linear	± 0.05
	1 Dec. Angular	± 1°