





POTENTIOMETER 02-C POTENTIOMETER 02-B POTENTIOMETER 02-A

ELECTRICAL SCHEMATIC DIAGRAM

CONTINUOUS IMPROVEMENTS ARE BEING MADE FOR ENHANCING PERFORMANCE FOR CUSTOMER BENEFIT IN PRODUCT DESIGN & PROCESS.THE PRODUCT SUPPLIED MAY BE SLIGHTLY DIFFERENT THAN DESCRIBED BY ABOVE SPECIFICATIONS

MANUFACTURER'S NAME ,PART NUMBER, RESISTANCE VALUE AND TOLERANCE, LINEARITY TOLERANCE, WIRING DIAGRAM AND DATE CODE \*CHANNEL IDENTIFICATION IS REQUIRED

RESENSO SMARTER SENSING AND CONTROL
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FIRST ISSUE: 230118

SCALE:1:1

**TOLERANCES** DIN-ISO 2768-1 (1991-06) (TOLERANCE CLASS-MEDIUM) **PART NO** U 149785

# **CONDUCTIVE PLASTIC** LINEAR MOTION POTENTIOMETER

## **WT14 TRIPLE TRACK**

Фī	 CUSTOMER DRAWING REF NO NA	REV -00	
Ψ -	CUSTOMER:	SHEET	1of1

RESISTANCE ELEMENT   RESISTANCE VALUE   RESISTANCE VALUE   RESISTANCE TOLERANCE   STANDARD INDEPENDENT LINEARITY TOLERANCE   EFFECTIVE ELECTRICAL STROKE   Stroke (mm)   60±1.0 (30+30)	ELECTRICAL CHARACTERISTICS	<u>UNITS</u>	<u>VALUE</u>
RESISTANCE TOLERANCE ±% 20  STANDARD INDEPENDENT LINEARITY TOLERANCE ±% <0.3  EFFECTIVE ELECTRICAL STROKE Stroke (mm) 60±1.0 (30+30)  RESOLUTION	RESISTANCE ELEMENT		CONDUCTIVE PLASTIC TRIPLE TRACK
STANDARD INDEPENDENT LINEARITY TOLERANCE       ±%       <0.3	RESISTANCE VALUE	Ohms	6.5k + 6.5K+6.5K
EFFECTIVE ELECTRICAL STROKE Stroke (mm) 60±1.0 (30+30)  RESOLUTION	RESISTANCE TOLERANCE	±%	20
RESOLUTION  POWER RATING at 40°C  TEMPERATURE COEFFICIENT OF RESISTANCE (TCR)  RECOMMANDED WIPER CURRENT  MAXIMUM WIPER CURRENT  MAXIMUM WIPER CURRENT  INSULATION RESISTANCE @ 50 VDC  DIELECTRIC STRENGTH @ 1 MINUTE  VAC  500/50Hz  END VOLTAGE AS A % OF APPLIED VOLTAGE  OUTPUT MACHING OF FSD  Watt  1.5   #400  #	STANDARD INDEPENDENT LINEARITY TOLERANCE	±%	<0.3
POWER RATING at 40°C         Watt         1.5           TEMPERATURE COEFFICIENT OF RESISTANCE(TCR)         ppm/deg c         ±400           RECOMMANDED WIPER CURRENT         μA         <0.1	EFFECTIVE ELECTRICAL STROKE	Stroke (mm)	60±1.0 (30+30)
TEMPERATURE COEFFICIENT OF RESISTANCE(TCR)         ppm/deg c         ±400           RECOMMANDED WIPER CURRENT         μA         <0.1	RESOLUTION		L
OF RESISTANCE(TCR)         ppm/deg c         ±400           RECOMMANDED WIPER CURRENT         μA         <0.1	POWER RATING at 40°C	Watt	1.5
MAXIMUM WIPER CURRENT       mA       10         INSULATION RESISTANCE @ 50 VDC       M Ohms       100         DIELECTRIC STRENGTH @ 1 MINUTE       V Ac       500/50Hz         END VOLTAGE AS A % OF APPLIED VOLTAGE       %       LESS THAN 0.5         OUTPUT MACHING OF FSD       %       ≤1		ppm/deg c	±400
INSULATION RESISTANCE @ 50 VDC   M Ohms   100	RECOMMANDED WIPER CURRENT	μA	<0.1
DIELECTRIC STRENGTH @ 1 MINUTE         V Ac         500/50Hz           END VOLTAGE AS A % OF APPLIED VOLTAGE         %         LESS THAN 0.5           OUTPUT MACHING OF FSD         %         ≤1	MAXIMUM WIPER CURRENT	mA	10
END VOLTAGE AS A % OF APPLIED VOLTAGE         %         LESS THAN 0.5           OUTPUT MACHING OF FSD         %         ≤1	INSULATION RESISTANCE @ 50 VDC	M Ohms	100
APPLIED VOLTAGE         %         LESS THAN 0.5           OUTPUT MACHING OF FSD         %         ≤1	DIELECTRIC STRENGTH @ 1 MINUTE	V Ac	500/50Hz
~		%	LESS THAN 0.5
TRACKING ERROR (TOLERANCE) OF FULL SCALE  % ≤1	OUTPUT MACHING OF FSD	%	≤1
	TRACKING ERROR (TOLERANCE) OF FULL SCALE	%	≤1

# MECHANICAL CHARACTERISTICS :--

MECHANICAL STROKE	Stroke (mm)	61 +3 , -0
BEARING TYPE		SLEEVE
MAXIMUM OPERATING FORCE	N	<2

### **ENVIRONMENTAL CHARACTERISTICS:--**

OPERATING TEMPERATURE	Degrees C	-50 to +105°
PROTECTION CLASS	IP	54
LIFE	Strokes	100,000

### MATERIALS OF CONSTRUCTION:--

HOUSING	 ALUMINUM BLACK ANODIZED
SHAFT	 STAINLESS STEEL (NON MAGNETIC)