Dual-output Potentiometer Converter

WSP-MSW



This compact plug-in signal converter connects with 3-wire type potentiometer, and provides DC voltage or current.

This converter has Isolator built-in and a burnout protection circuit as standard equipment

Features

- ★ Zero & span adjustment ±10% full scale (Fine adjustment by 25 turn trimmer)
- ★ Safe design by dielectric strength of 3000Vac
- \star 5 years warranty, long life
- ★ CE approved
- \star Burnout protection circuit as standard equipment

Ordering code

					Code	Test Report
						lone
Input Span Ad. Zero Ad.						Vith Test report
de (Total Resistance) Range Range						L L
0 50 to 500Ω FS 50 to 100% FS 50 to 50% FS					Ļ	
1 501 to 10kΩ FS					Code	Power Supply
$\pm 20\%$ FS $\pm 20\%$ FS $\pm 20\%$ FS	↓				A 100 to 24	40Vac ±10% 50/60Hz
9 $(FS = 343\Omega)$ $(FS = 343\Omega)$ $(FS = 343\Omega)$	Code	Output 1	Allowable Load		D 24Vdc ±	10%
99 *1 Contact us for other than the above		Output 1	Resistance		*2 10.8 to 3	0Vdc
		4 to 20mAdc	750Ω or less		8 110Vdc:	±10%
	В	1 to 5mAdc	3kΩ or less	Ļ		
!	D	0 to 1mAdc	15kΩ or less	Code	Output 2	Allowable Load
★ Note: Zero & Span Adjustment	E	0 to 10mAdc	1.5kΩ or less	Code	Output 2	Resistance
The measuring range must be 50% or more of	G	0 to 20mAdc	750Ω or less	Α	4 to 20mAdc	350Ω or less
total resistance of a potentiometer.	н	1 to 5Vdc	1kΩ or more	D	0 to 1mAdc	7kΩ or less
L S H		0 to 10mVdc	10kΩ or more	G	0 to 20mAdc	350Ω or less
	K	0 to 100mVdc	100kΩ or more	Н	1 to 5Vdc	1kΩ or more
	L	0 to 1Vdc	200Ω or more	L	0 to 1Vdc	200Ω or more
		0 to 5Vdc	1kΩ or more	N	0 to 5Vdc	1kΩ or more
	Р	0 to 10Vdc	2kΩ or more	Р	0 to 10Vdc	2kΩ or more
	R	±10Vdc	2kΩ or more	R	±10Vdc	2kΩ or more
	s	Contact us for	other than the above		Contact us for of	ther than the above
A: Out of Range, lower side resistance		Current output 20mA or less		S * 1	Current output	20mA or less
A: Out of Range, lower side resistance	*1		e output 10V or less		Voltage output	
A: Out of Range, lower side resistance B: Measuring range		I vollage output				

Specifications

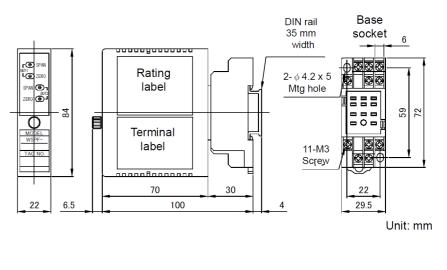
Terminal connections

Input signal	3-wire type potensiometer					
Accuracy	±0.1% FS (at 23°C)					
Response time	Approx. 25ms (0 to 90%)					
Allowable load	Current output					
	First output : 15V or less of voltage drop between output					
	Second output : 11V or less of voltage drop between output					
	Voltage output					
	Load current 5mA or less					
	*1uA or less if the output is less than 1V FS					
Span adjustment	50 to 100% of rated input (25 turn trimmer)					
	(±20% for input 19)					
Zero adjustment	0 to 50% of span (±20% for input 19)					
Operating temperature	-5 to +55°C					
Operating relative humidity	90% or less (Non-condensing)					
Temperature coefficient	±0.015% FS of span per °C					
Burnout protection	Upscale / downscale *Please specify when you order for downscale					
Isolation	Between input, output, and power supply					
Insulation resistance	100MΩ or more with 500Vdc megger					
	Between input, output, and power supply terminal					
Dielectric strength	2000Vac for 1 minute					
Power consumption	Approx. 5.6VA (AC), Approx. 88mA (DC)					
Power supply variation	±0.1% FS (within the range of rated voltage)					
Dimensions	84(H) X 29.5(W) X 106.5(D)mm					
Weight	Approx. 150g					
Structure	Plug-in (Body part and socket part)					
Connection	M3 SEMS screw part of the base socket (Tightening torque 0.6N·m)					
Mounting	DIN rail or wall surface					
Case color and material	Ivory, ABS resin, flame retardant grade UL94V-0					
EMC directive	EN61326-1, EN61010-1, EN IEC 63000					
	Installation category : II, Pollution degree : 2					
Rated altitude	2000m or less					

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	No	Symbol		Description	
\bigcirc	1	INPUT	HIGH	Input	
6 54	2	OUTPUT-2	+	No.2 Output	
	3 4	INPUT	SLIDE LOW	Input	
	5	OUTPUT-2	-	No.2 Output	
	6 NC			No connection	
	7	OUTPUT-1	+	No.1 Output	
	8	NC		No connection	
987	9	OUTPUT-1	-	No.1 Output	
	10 11	POWER	U(+) V(-)	Power Supply	

Demensions



* Specification is subject to change without notice

Watanabe Electric Industry Co. Ltd.