

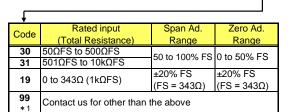
This compact plug-in signal converter connects with 3-wire type potentiometer, and provides DC voltage or current.

This converter has Isolator built-in, also has burnout protection circuit as standard equipment.

Features

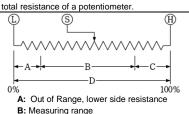
- ★ Fine Zero & span adjustment by 25 turn trimmer
- ★ Wide zero & span adjustment
- ★ Safe design by dielectric strength of 3000Vac
- ★ 5 years warranty, long life
- ★ CE approved
- ★ Burnout protection circuit built-in

Ordering code



WSPF- MS -

★ Note: Zero & Span Adjustment The measuring range must be 50% or more of



- B: Measuring range
- C: Out of Range, upper side resistance D: Total resistance of a Potentiometer

A procedure for adjustment, adjust Zero first, and then adjust the Span.

Code	Output	Allowable Load	
Code		Resistance	
Α	4 to 20mAdc	750Ω or less	
В	1 to 5mAdc	3kΩ or less	
D	0 to 1mAdc	15kΩ or less	
E	0 to 10mAdc	1.5kΩ or less	
G	0 to 20mAdc	750Ω or less	
Н	1 to 5Vdc	1kΩ or more	
J	0 to 10mVdc	10kΩ or more	
K	0 to 100mVdc	100kΩ or more	
L	0 to 1Vdc	1kΩ or more	
N	0 to 5Vdc	1kΩ or more	
Р	0 to 10Vdc	2kΩ or more	
R	±10Vdc	2kΩ or more	
s	Contact us for other than the above		
* 1	Current output 20mA or less		
* 1	Voltage output 10V or less		

None With Test report

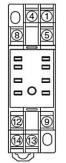
Code	Power Supply		
Α	100 to 240Vac ±10% 50/60Hz		
D	24Vdc ±10%		
*2	10.8 to 30Vdc		
8	110Vdc ±10%		

- *1···CE approval do not adapt input range code 99 and output range code S.
- *2···CE approval do not adapt when power supply is 10.8Vdc to 30Vdc.

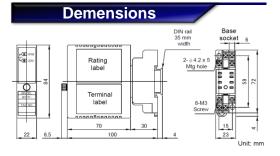
Specifications

Input signal	3-wire type potensiometer	
Accuracy	±0.1% FS (at 23°C)	
Response time	Approx. 25ms (0 to 90%)	
Allowable load	Current output	
	15V or less of voltage drop between output	
	Voltage output	
	Load current 5mA or less	
	*1µA 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 (25 turn trimmer) (±20% for input 19)	
Operating temperature	erating temperature -5 to +55°C	
Operating relative humidity	90% or less (Non-condensing)	
Temperature coefficient	±0.015% 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	3000Vac for 1 min between power supply and input/output terminal,	
	2000Vac for 1 min between input and output terminal	
Power consumption	Approx. 4.4VA (AC), Approx. 64mA (DC)	
Power supply variation	±0.1% FS (within the range of rated voltage)	
Dimensions	84(H) X 23(W) X 106.5(D)mm	
Weight	Approx. 130g	
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, EN50581	
	Installation category : II, Pollution degree : 2	
Rated altitude	2000m or less	

Terminal connections



No	Symbol		Description
1	INPUT	HIGH	loout
5	INPUT	LOW	Input
8	NC		No connection
9 12	OUTPUT-1	+	Output
13 14	POWER	U(+) V(-)	Power Supply



* Specification is subject to change without notice