

New Product!

Plug-in type
compact signal converter

watanabe
Leading company of measuring instruments

WSPF series



± 10%
Wide zero & span
adjustment

High Performance!
Low Price!

15 Turn
Trimmer for
fine zero & span
adjustment



5 Years
Long warranty
& long life

3 kV
High dielectric
strength

DC 30V
Power supply
compatible

*Can be used for Automotive batteries
which has wide voltage variation



watanabe

Manufacturer specializing in Converters
Long term stable supply!

■ **Isolator**

	Isolator WSPF-IS	Isolator WSPF-DS	Dual-output Isolator WSPF-DSW
Model code			
Input signal	DC current / voltage (Process signal)	DC current / voltage	
Accuracy	±0.1% FS (at 23°C)		
Response time	Approx. 25ms (0 to 90%)		
Isolation	Between input, output, and power supply		
Power supply	100 to 240Vac ±10% 50/60Hz, 24Vdc ±10% 10.8 to 30Vdc, 110Vdc ±10%		
Insulation resistance	100MΩ or more with 500Vdc megger		
Dielectric strength	3000Vac for 1 minute between power supply and input/output terminal, 2000Vac for 1 minute between input and output terminal		
Operating temperature & relative humidity	-5 to +55°C, 90% or less (Non-condensing)		
Dimensions	84(H) X 23(W) X 106.5(D)mm		84(H) X 29.5(W) X 106.5(D)mm

	High-speed Response Isolator WSPF-DE	Dual-output High-speed Response Isolator WSPF-DEW
Model code		
Input signal	DC current / voltage	
Accuracy	±0.1% FS (at 23°C)	
Response time	Approx. 120μs (0 to 90%)	
Isolation	Between input, output, and power supply	
Power supply	100 to 240Vac ±10% 50/60Hz, 24Vdc ±10% 10.8 to 30Vdc, 110Vdc ±10%	
Insulation resistance	100MΩ or more with 500Vdc megger	
Dielectric strength	3000Vac for 1 minute between power supply and input/output terminal, 2000Vac for 1 minute between input and output terminal	
Operating temperature & relative humidity	-5 to +55°C, 90% or less (Non-condensing)	
Dimensions	84(H) X 23(W) X 106.5(D)mm	84(H) X 29.5(W) X 106.5(D)mm



■ **Distributor (Current Loop Supply)**

	Distributor (Current Loop Supply) WSPF-DBZ	Dual-output Distributor (Current Loop Supply) WSPF-DBZW
Model code		
Input signal	4 to 20mA _{dc} (Transmitter signal)	
Accuracy	±0.1% FS (at 23°C)	
Response time	Approx. 25ms (0 to 90%)	
Transmitter power supply	24Vdc ±1V, max approx. 25mA	

■ **Temperature signal converter**

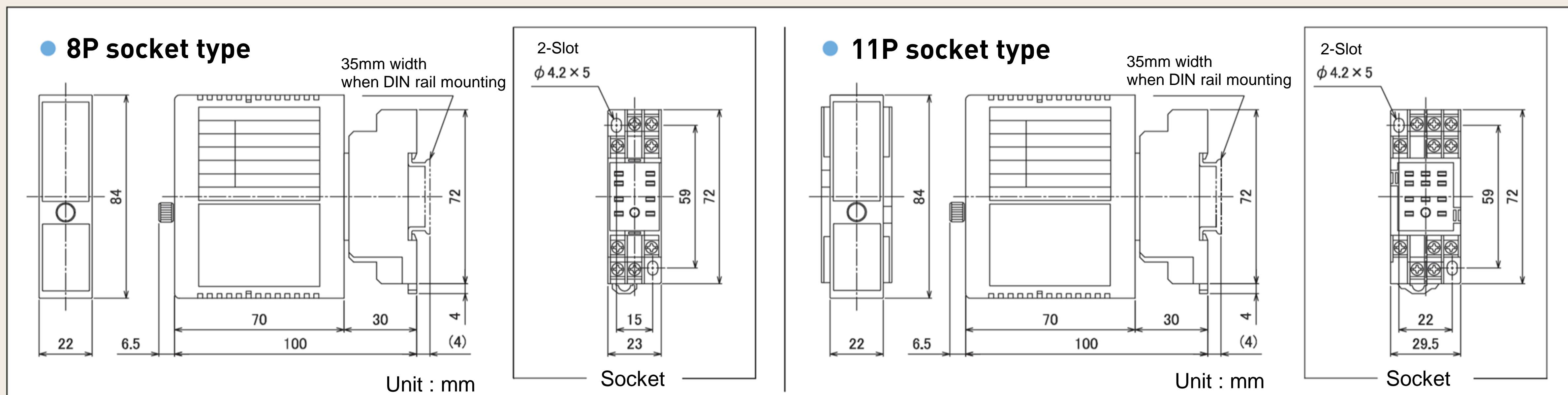
	Thermocouple Converter WSPF-THS	Dual-output Thermocouple Converter WSPF-THW	RTD Converter WSPF-RTS	Dual-output RTD Converter WSPF-RTW
Model code				
Input signal	Thermocouple (T / E / J / K / N / R / S / B / WRe5-26)		Pt100Ω, JPt100Ω, Ni508.4Ω (3-wire)	
Accuracy	±0.2% FS (at 23°C)		±0.1% FS (at 23°C)	
Response time	Approx. 25ms (0 to 90%)		Approx. 25ms (0 to 90%)	
Burnout protection	Upscale / downscale		Upscale / downscale	
Cold junction compensating Accuracy	±0.5°C or less at 23±10°C (±1°C or less for R, WR and S)		-	

■ **Potentiometer converter**

	Potentiometer Converter WSPF-MS	Dual-output Potentiometer Converter WSPF-MSW
Model code		
Input signal	3-wire type potentiometer	
Accuracy	±0.1% FS (at 23°C)	
Response time	Approx. 25ms (0 to 90%)	
Burnout protection	Upscale / downscale	



■ **Dimensions**



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