



This compact plug-in type converter (isolator) provides 2 signal outputs which are mutually isolated between input, output and power-supply. It amplifies and converts various kinds of signal with isolation to use in the integrated instrumental control system. It is highly effective as noise countermeasures.

Features

- ★ Fine zero & span adjustment by 15 turn trimmer
- ★ Zero & span adjustment $\pm 10\%$ full scale
- ★ Safe design by dielectric strength of 3000Vac
- ★ Compatible with 30Vdc power supply voltage
- ★ 5 years warranty, long life
- ★ CE approved

Ordering code

WSPF- **DSW** - [] [] [] [] [] []

Code	Input	Input Resistance
12	0 to 1Vdc	1M Ω
13	0 to 5Vdc	1M Ω
14	1 to 5Vdc	1M Ω
15	0 to 10Vdc	1M Ω
24	± 5 Vdc	1M Ω
25	± 10 Vdc	1M Ω
32	0 to 1mA _{dc}	100 Ω
33	0 to 10mA _{dc}	50 Ω
35	0 to 20mA _{dc}	50 Ω
36	4 to 20mA _{dc}	50 Ω
40	± 1 mA _{dc}	100 Ω
41	± 20 mA _{dc}	50 Ω
99	Contact us for other than the above	
*1	Current input : ± 20 mA, Span : 1mA to 40mA Voltage input : ± 300 V, Span : 60mV to 600V	

Code	Output 1	Allowable Load Resistance
A	4 to 20mA _{dc}	750 Ω or less
B	1 to 5mA _{dc}	3k Ω or less
D	0 to 1mA _{dc}	15k Ω or less
E	0 to 10mA _{dc}	1.5k Ω or less
G	0 to 20mA _{dc}	750 Ω or less
H	1 to 5Vdc	1k Ω or more
J	0 to 10mVdc	10k Ω or more
K	0 to 100mVdc	100k Ω or more
L	0 to 1Vdc	1k Ω or more
N	0 to 5Vdc	1k Ω or more
P	0 to 10Vdc	2k Ω or more
R	± 10 Vdc	2k Ω or more
S	Contact us for other than the above	
*1	Current output 20mA or less Voltage output 10V or less	

Code	Test Report
X	None
T	With Test report

Code	Power Supply
A	100 to 240Vac $\pm 10\%$ 50/60Hz
D	24Vdc $\pm 10\%$
*2	10.8 to 30Vdc
8	110Vdc $\pm 10\%$

Code	Output 2	Allowable Load Resistance
A	4 to 20mA _{dc}	550 Ω or less
D	0 to 1mA _{dc}	11k Ω or less
G	0 to 20mA _{dc}	550 Ω or less
H	1 to 5Vdc	1k Ω or more
L	0 to 1Vdc	1k Ω or more
N	0 to 5Vdc	1k Ω or more
P	0 to 10Vdc	2k Ω or more
R	± 10 Vdc	2k Ω or more
S	Contact us for other than the above	
*1	Current output 20mA or less Voltage output 10V or less	

- *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.

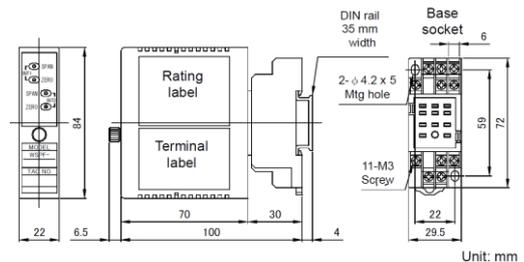
Specifications

Input signal	DC current / voltage
Output signal	DC current / voltage (2 output)
Accuracy	$\pm 0.1\%$ FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load	Current output Output 1 : 15V or less of voltage drop between output Output 2 : 7V or less of voltage drop between output Voltage output Load current 5mA or less *1 μ A or less if the output is less than 1V FS
Zero & span adjustment	$\pm 10\%$ FS (15 turn trimmer)
Operating temperature range	-5 to +55°C
Operating relative humidity	90% or less (Non-condensing)
Storage temperature range	-10 to +60°C
Temperature coefficient	$\pm 0.015\%$ of span per °C
Isolation	Between input, output, and power supply
Insulation resistance	100M Ω or more with 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	3000Vac for 1 minute between power supply and input/output terminal, 2000Vac for 1 minute between input and output terminal
Power consumption	Approx. 4.5VA (AC), Approx. 100mA (DC)
Power supply variation	$\pm 0.1\%$ 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, EN50581 Installation category : II, Pollution degree : 2
Rated altitude	2000m or less

Terminal connections

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

Dimensions



* Specification is subject to change without notice