



This compact plug-in type converter (isolator) provides signal output which is 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- **DS** - [ ] - [ ] - [ ]

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

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

Code	Test Report
X	None
T	With Test report

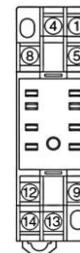
Code	Power Supply
A	100 to 240Vac $\pm 10\%$ 50/60Hz
D	24Vdc $\pm 10\%$
*2	10.8 to 30Vdc
8	110Vdc $\pm 10\%$

- \*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

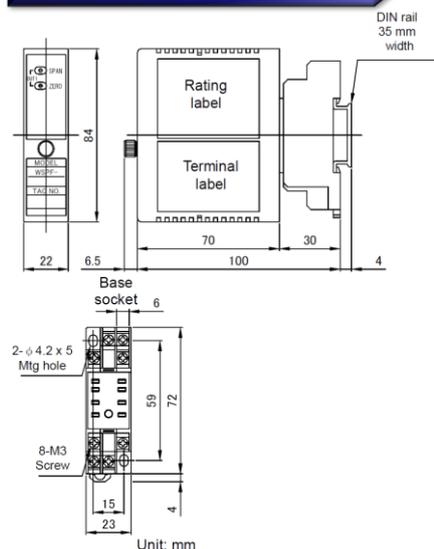
Input signal	DC current / voltage
Output signal	DC current / voltage
Accuracy	$\pm 0.1\%$ FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load	Current output 15V or less of voltage drop between output terminal Voltage output Load current 5mA or less *1 $\mu$ A or less if the output is less 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 $\Omega$ 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. 60mA (DC)
Power supply variation	$\pm 0.1\%$ 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	+
4		-
5	NC	No connection
8	NC	No connection
9	OUTPUT	+
12		-
13	POWER	U(+)
14		V(-)

## Dimensions



\* Specification is subject to change without notice