



This compact plug-in, high-speed response 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

- ★ High-speed response time 120 $\mu$ s
- ★ 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- **DE** - **□□** - **□□**

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 1mA <sub>dc</sub>	100 $\Omega$
33	0 to 10mA <sub>dc</sub>	50 $\Omega$
35	0 to 20mA <sub>dc</sub>	50 $\Omega$
36	4 to 20mA <sub>dc</sub>	50 $\Omega$
40	$\pm 1$ mA <sub>dc</sub>	100 $\Omega$
41	$\pm 20$ mA <sub>dc</sub>	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 20mA <sub>dc</sub>	750 $\Omega$ or less
B	1 to 5mA <sub>dc</sub>	3k $\Omega$ or less
D	0 to 1mA <sub>dc</sub>	15k $\Omega$ or less
E	0 to 10mA <sub>dc</sub>	1.5k $\Omega$ or less
G	0 to 20mA <sub>dc</sub>	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

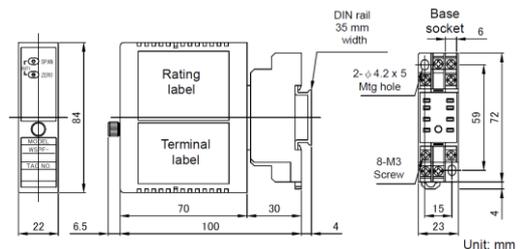
Input signal	DC current / voltage
Output signal	DC current / voltage
Accuracy	$\pm 0.1\%$ FS (at 23°C)
Response time	Approx. 120 $\mu$ s ( 0 to 90%)
Frequency response	Approx. 3.3kHz or more (Sine wave input : -3dB)
Allowable load	Current output 15V or less of voltage drop between output terminal Voltage 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, EN IEC 63000 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