



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

WSP- **DS** - [] - [] - []

Code	Input	Input Resistance
10	0 to 10mVdc	1M Ω
11	0 to 100mVdc	1M Ω
12	0 to 1Vdc	1M Ω
13	0 to 5Vdc	1M Ω
14	1 to 5Vdc	1M Ω
15	0 to 10Vdc	1M Ω
17	0 to 60mVdc	1M Ω
24	± 5 Vdc	1M Ω
25	± 10 Vdc	1M Ω
30	0 to 10 μ A dc	1k Ω
31	0 to 100 μ A dc	100 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 *1	Contact us for other than the above Current input : ± 20 mA, Span : 10 μ A to 20mA Voltage input : ± 300 V, Span : 10mV to 300V	

Code	Output	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 *1	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

Code	Test Report
X	None
T	With Test report

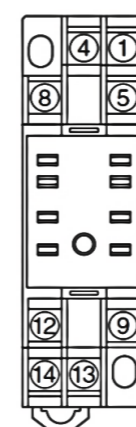
Code	Power Supply
A	100 to 240Vac $\pm 10\%$ 50/60Hz
D	24Vdc $\pm 10\%$
*2	10.8 to 30Vdc
8	110Vdc $\pm 10\%$

- * 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

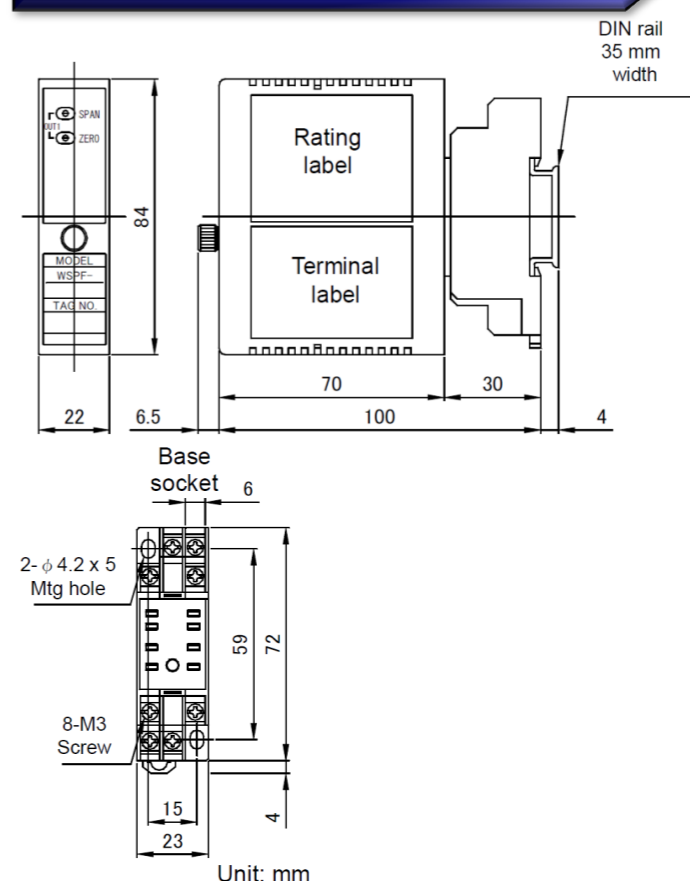
Input signal	DC current / voltage
Output signal	DC current / voltage
Accuracy	$\pm 0.1\%$ FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load	Current output 15V or less of voltage drop between output terminal Voltage output Load current 5mA or less *1 μ A or less if the output is less than 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	$\pm 0.015\%$ FS 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. 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	U(+)	Power Supply
14	V(-)	

Dimensions



Unit: mm
* Specification is subject to change without notice