



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 ±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	1MΩ
11	0 to 100mVdc	1MΩ
12	0 to 1Vdc	1MΩ
13	0 to 5Vdc	1MΩ
14	1 to 5Vdc	1MΩ
15	0 to 10Vdc	1MΩ
17	0 to 60mVdc	1MΩ
24	±5Vdc	1MΩ
25	±10Vdc	1MΩ
30	0 to 10μAdc	1kΩ
31	0 to 100μAdc	100Ω
32	0 to 1mAdc	100Ω
33	0 to 10mAdc	50Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
40	±1mAdc	100Ω
41	±20mAdc	50Ω
99 * 1	Contact us for other than the above Current input : ±20mA, Span : 10μA to 20mA Voltage input : ±300V, Span : 10mV to 300V	

Code	Output	Allowable Load Resistance
A	4 to 20mAdc	750Ω or less
B	1 to 5mAdc	3kΩ or less
D	0 to 1mAdc	15kΩ or less
E	0 to 10mAdc	1.5kΩ or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	1kΩ or more
J	0 to 10mVdc	10kΩ or more
K	0 to 100mVdc	100kΩ or more
L	0 to 1Vdc	1kΩ or more
N	0 to 5Vdc	1kΩ or more
P	0 to 10Vdc	2kΩ or more
R	±10Vdc	2kΩ 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

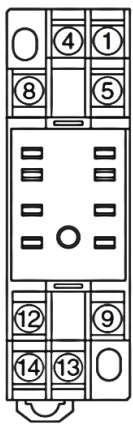
Code	Power Supply
A	100 to 240Vac ±10% 50/60Hz
D	24Vdc ±10%
* 2	10.8 to 30Vdc
8	110Vdc ±10%

* 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

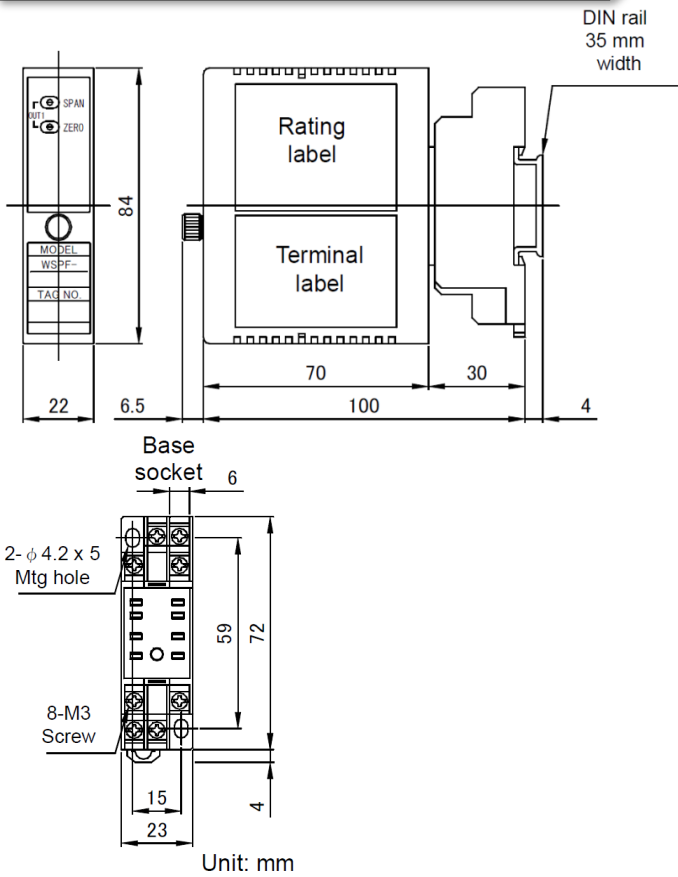
Input signal	DC current / voltage
Output signal	DC current / voltage
Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load	Current output 15V or less of voltage drop between output terminal Voltage output Load current 5mA or less *1μA or less if the output is less than 1V FS
Zero & span adjustment	±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	±0.015% FS of span per °C
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ 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	±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(-)

Demensions



* Specification is subject to change without notice