



Converter which outputs DC signal proportional to the absolute value of the input signal

### Features

- ★ Zero & span adjustment  $\pm 10\%$  full scale
- ★ Easy maintenance by plug-in structure
- ★ CE approved

### Ordering code

WSP-ABS- - - -

Code	Input	Input Resistance
20	$\pm 10\text{mVDC}$	$1\text{M}\Omega$
21	$\pm 50\text{mVDC}$	$1\text{M}\Omega$
22	$\pm 100\text{mVDC}$	$1\text{M}\Omega$
23	$\pm 1\text{VDC}$	$1\text{M}\Omega$
24	$\pm 5\text{VDC}$	$1\text{M}\Omega$
25	$\pm 10\text{VDC}$	$1\text{M}\Omega$
40	$\pm 1\text{mA}$	$50\Omega$
41	$\pm 20\text{mA}$	$50\Omega$
99 * 1	Contact us for other than the above Current input : $\pm 20\text{mA}$ , Span : $1\text{mA}$ to $40\text{mA}$ Voltage input : $\pm 10\text{V}$ , Span : $10\text{mV}$ to $20\text{V}$	

Code	Output	Allowable Load Resistance
A	$4$ to $20\text{mA}$	$750\Omega$ or less
D	$0$ to $1\text{mA}$	$15\text{k}\Omega$ or less
G	$0$ to $20\text{mA}$	$750\Omega$ or less
H	$1$ to $5\text{VDC}$	$2.5\text{k}\Omega$ or more
L	$0$ to $1\text{VDC}$	$500\Omega$ or more
N	$0$ to $5\text{VDC}$	$2.5\text{k}\Omega$ or more
P	$0$ to $10\text{VDC}$	$10\text{k}\Omega$ or more
S * 1	Contact us for other than the above Current output $20\text{mA}$ or less Voltage output $10\text{V}$ or less	

Code	Test Report
X	None
T	With Test report

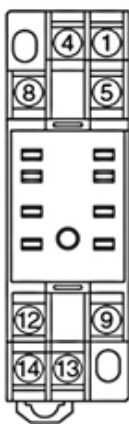
Code	Power Supply
A	$100$ to $240\text{VAC}$ $\pm 10\%$ $50/60\text{Hz}$
D	$24\text{VDC}$ $\pm 10\%$
8	$110\text{VDC}$ $\pm 10\%$

\* 1...CE approval do not adapt input range code 99 and output range code S.

### Specifications

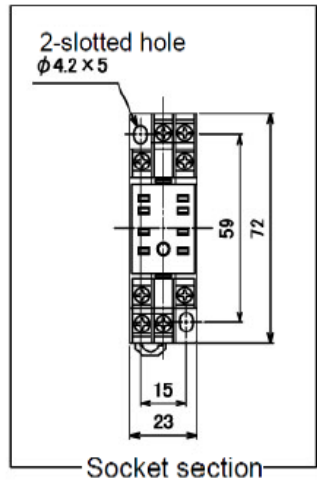
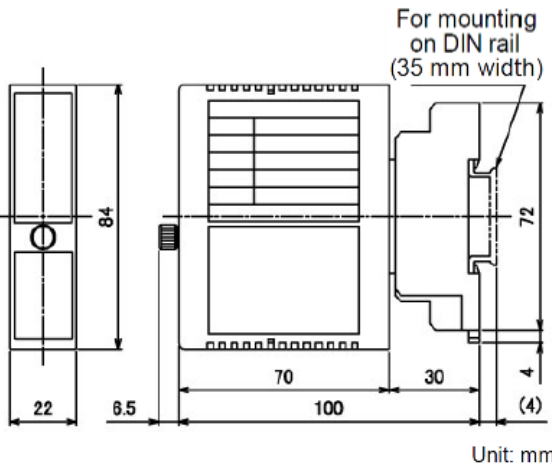
Input signal	DC current / voltage
Output signal	DC current / voltage
Arithmetic expression	Output =   Input
Accuracy	$\pm 0.1\%$ FS (at $23^\circ\text{C}$ ) * $\pm 1.6\%$ FS for output code D
Response time	Approx. $25\text{ms}$ ( $0$ to $90\%$ )
Allowable load	Current output 15V or less of voltage drop between output terminal Voltage output Load current $2\text{mA}$ or less * $1\text{mA}$ or less if the output is less than $1\text{V}$ FS
Zero & span adjustment	$\pm 10\%$ FS (Setting by front switch)
Operating temperature range	$-5$ to $+55^\circ\text{C}$
Operating relative humidity	$90\%$ or less (Non-condensing)
Temperature coefficient	$\pm 0.015\%$ of span per $^\circ\text{C}$
Isolation	Between input, output, and power supply
Insulation resistance	$100\text{M}\Omega$ or more with $500\text{VDC}$ megger Between input, output, and power supply terminal
Dielectric strength	$2000\text{VAC}$ for 1 minute between power supply, input and output
Power consumption	Approx. $5.5\text{VA}$ (AC), $100\text{mA}$ ( $24\text{VDC}$ ), $25\text{mA}$ ( $100\sim 220\text{VDC}$ )
Power supply variation	$\pm 0.1\%$ FS (within the range of rated voltage)
Dimensions	$84(\text{H}) \times 23(\text{W}) \times 106.5(\text{D})\text{mm}$
Weight	Approx. $150\text{g}$
Structure	Plug-in (Body part and socket part)
Connection	M3 SEMS screw part of the base socket (Tightening torque $0.6\text{N}\cdot\text{m}$ )
Mounting	DIN rail or wall surface
Case color and material	Ivory, ABS resin, flame retardant grade UL94V-0

### Terminal connections



No	Symbol	Description
1	+	Input
4	-	
5		No connection
8		
9	+	Output
12	-	
13	U(+)	Power Supply
14	V(-)	

### Demensions



\* Specification is subject to change without notice