



This compact plug-in converter isolates inputs, outputs, and power source from one another. It not only isolates signals of various levels from other circuits, but also amplifies and standardizes them in measurement control systems. It also provides an effective means of achieving noise immunity.

Features

- Dielectric strength of 2000 V AC between input, output, and power source
- This compact and tightly mountable isolator allows the user to downsize the system.
- Both AC flexible power supply and DC power supply are available.
- Accuracy: $\pm 0.1\%$, Response time: 25 ms
- Shortened time of completion and high serviceability thanks to plug-in design
- The source voltage of 24 V DC is supplied from a CE-compliant unit.

Model name

WSP — **D S** — [] — [] — [] — []

DS	Dielectric strength: 2000 V AC for 1 minute Response time: 25 ms (0-90%)
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Test Report	
X	No
T	Yes

	Input Signal	Input Resistance
10	0-10 mV DC	1M Ω
11	0-100 mV DC	1M Ω
12	0-1 V DC	1M Ω
13	0-5 V DC	1M Ω
14	1-5 V DC	1M Ω
15	0-10 V DC	1M Ω
17	0-60 mV DC	1M Ω
24	± 5 V DC	1M Ω
25	± 10 V DC	1M Ω
30	0-10 μ A DC	1k Ω
31	0-100 μ A DC	100 Ω
32	0-1 mA DC	100 Ω
33	0-10 mA DC	50 Ω
35	0-20 mA DC	50 Ω
40	± 1 mA DC	100 Ω
41	± 20 mA DC	50 Ω
46	4-20 mA DC	50 Ω
99	Please contact us for other than those above. Voltage input: 10 mVfs-300 Vfs Current input: 10 μ Afs-20 mAfs	

	Output Signal	Allowable Load
A	4-20 mA DC	750 Ω or less
B	1-5 mA DC	3k Ω or less
D	0-1 mA DC	15k Ω or less
E	0-10 mA DC	1.5k Ω or less
G	0-20 mA DC	750 Ω or less
H	1-5 V DC	1k Ω or more
J	0-10 mV DC	10k Ω or more
K	0-100 mV DC	100k Ω or more
L	0-1 V DC	200 Ω or more
N	0-5 V DC	1k Ω or more
P	0-10 V DC	2k Ω or more
R	± 10 V DC	2k Ω or more
S	Please contact us for other than those above. Voltage input: 10 V or less Current input: 20 mA or less	

	Supply Voltage
A	90-264 V AC 50/60Hz
D	24 V DC $\pm 10\%$ (conformity with CE marking)*1 10.8-26.4 V DC (inconformity with CE marking)*2
8	90-121 V DC

*1 The source voltage of 24 V DC is supplied from a CE-compliant unit.
Conformity with CE directives: Electromagnetic Compatibility directive (89/336/EEC)
EMI EN50081-2
EMI EN61000-6-2

*2 In the case of not using this as a CE-compliant product, you can use this with power supply of 10.8-26.4 V DC.

*3 In the case of using this as a CE-compliant product, the input code 99 and the output code S are not supported.

Specifications

Accuracy:	$\pm 0.1\%$ fs (at 23°C)
Response time:	25 ms (time required to reach 90% of final value)
Allowable load:	Voltage output: load current 5 mA or less For less than 1 Vfs of output, the current is 1 μ A or less. Current output: 15 V or less of voltage drop between output terminals
Zero & span adjustment:	$\pm 5\%$ fs (1-turn trimmer)
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	$\pm 0.15\%$ fs/10°C
Isolation:	Between input, output, and power source terminals
Insulation resistance:	100 M Ω or more with a 500 V DC megger Between input, output, and power source terminals
Dielectric strength:	2000 V AC for 1 minute Between input, output, and power source terminals
Power consumption:	Approx. 4.5 VA (AC), approx. 60 mA (24 V DC)
Influence of source voltage:	$\pm 0.1\%$ fs in the range of rated voltage
Dimensions:	84(H)x23(W)x106.5(D)mm
Weight:	Approx. 130 g

Structure:	Plug-in (consisting of main unit and socket part)
Connection part:	M3 SEMS screw part of the base socket
Material of terminal screw:	Chromated iron
Case color and material:	Ivory, heat-resistant ABS resin (94V-0)
Mounting:	DIN rail or wall surface
Dimensions:	Refer to Dimensional Drawing I
Terminal arrangement:	



No.	Symbol	Description
1	INPUT +	Input Signal
4	INPUT -	
5	NC	No Connection
8	NC	No Connection
9	OUTPUT +	Output Signal
12	OUTPUT -	
13	POWER U(+)	Power Supply
14	POWER V(-)	