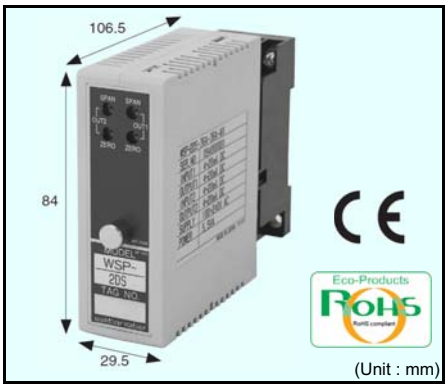
Dual-Channel Isolator

WSP-2DS



(Unit : mm)

This compact plug-in converter (isolator) has 2 separate input / output circuit. This converter accepts a 2 channel DC voltage or current input and provides optically isolated DC voltage or current output. It amplifies and converts the selected DC input to the selected DC output. And also provides isolation of up to 2000V between the signal input, outputs, and power supply.

Features

★ Achieves functions for two isolators with a single unit
★ Dielectric strength of 2000Vac between input, outputs and power supply
★ Both AC and DC power supply are available
★ Accuracy at 0.1% FS, Response time 25ms
★ Easy to maintain by plug-in structure
★ CE approved, RoHS compliant

Ordering code

WSP- 2DS - □□ □ - □□ □ - □□

Code	Input 1	Input Resistance
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
25	±10Vdc	1MΩ
32	0 to 1mAdc	100Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
99 ＊1	Contact us for other than the above Full Scale Range: Current input 10μA to 20mA Voltage input 10mV to 150V	

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

Code	Output 1	Allowable Load
A	4 to 20mAdc	750Ω or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	1kΩ or more
L	0 to 1Vdc	200Ω 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	Input 2	Input Resistance
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
25	±10Vdc	1MΩ
32	0 to 1mAdc	100Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
99 ＊1	Contact us for other than the above Full Scale Range: Current input 10μA to 20mA Voltage input 10mV to 150V	

Code	Output 2	Allowable Load
A	4 to 20mAdc	750Ω or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	1kΩ or more
L	0 to 1Vdc	200Ω 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	Power Supply
A	100 to 240Vac ±10% 50/60Hz

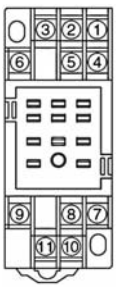
Code	Test Report
X	None
T	With Test report

Applicable Directive (89/336/EEC)
EMI EN61000-6-4
EMS EN61000-6-2
Low voltage directive (73/23/EEC)
EN61010-1

Specifications

Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load resistance	Current output First output : 10V or less of voltage drop between output Voltage output Load current 2mA or less
Zero & span adjustment	±5% FS (1 turn trimmer)
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Temperature coefficient	±0.015% FS of span per °C
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	Approx. 5.5VA
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimensions	84(H) X 29.5(W) X 106.5(D)mm
Weight	Approx. 150g
Structure	Plug-in
Connection	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

Terminal connections



No	Signal	Description
1	No.1 INPUT(+)	No.1 Input
3	No.1 INPUT(-)	
7	No.1 OUTPUT(+)	No.1 Output
9	No.1 OUTPUT(-)	
4	No.2 INPUT(+)	No.2 Input
6	No.2 INPUT(-)	
2	No.2 OUTPUT(+)	No.2 Output
5	No.2 OUTPUT(-)	
8	NC	No connection
10	POWER U(+)	Power Supply
11	POWER V(-)	

＊ Specification is subject to change without notice