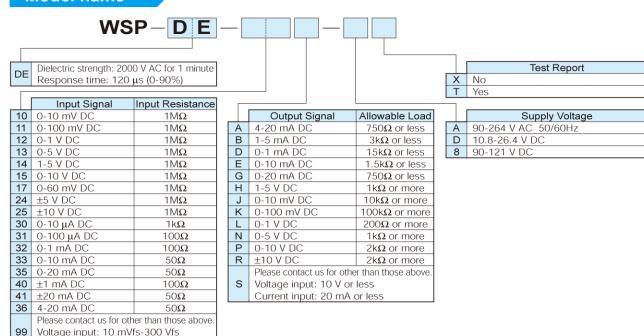# High-Response Isolator

This is a compact plug-in high-speed response isolator. It not only isolates signals of various levels between input, output, and power supply terminals, but also amplifies and standardizes them in measurement control systems.

Features

- Implements step response of 120μs.
- Dielectric strength of 2000 V AC between input, output, and power source
- Both AC flexible power supply and DC power supply are available.
- This compact and tightly mountable isolator allows the user to downsize the system.
- Shortened time of completion and high serviceability thanks to plug-in design

Model name

WSP — D E — ☐☐ — ☐☐ — ☐☐

DE	Dielectric strength: 2000 V AC for 1 minute Response time: 120 μs (0-90%)

	Input Signal	Input Resistance
10	0-10 mV DC	1MΩ
11	0-100 mV DC	1MΩ
12	0-1 V DC	1MΩ
13	0-5 V DC	1MΩ
14	1-5 V DC	1MΩ
15	0-10 V DC	1MΩ
17	0-60 mV DC	1MΩ
24	±5 V DC	1MΩ
25	±10 V DC	1MΩ
30	0-10 μA DC	1kΩ
31	0-100 μA DC	100Ω
32	0-1 mA DC	100Ω
33	0-10 mA DC	50Ω
35	0-20 mA DC	50Ω
40	±1 mA DC	100Ω
41	±20 mA DC	50Ω
36	4-20 mA DC	50Ω
99	Please contact us for other than those above. Voltage input: 10 mVfs-300 Vfs Current input: 10 μAfs-20 mAfs	

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

	Test Report
X	No
T	Yes

	Supply Voltage
A	90-264 V AC 50/60Hz
D	10.8-26.4 V DC
8	90-121 V DC

Specifications

Accuracy:	±0.1%fs (at 23°C)
Response time:	120 μs (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 1μA or less. Current output: 15 V or less of voltage drop between output terminals
Zero & span adjustment:	±5%fs (1-turn trimmer)
Operating temperature and humidity:	−5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.15%fs/10°C
Isolation:	Between input, output, and power source terminals
Insulation resistance:	100 MΩ 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:	±0.1%fs in the range of rated voltage
Dimensions:	84(H)x23(W)x106.5(D)mm
Weight:	Approx. 130 g

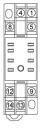|	
Structure:	Plug-in (consisting of main unit and socket part)
Connection part:	M3 SEMS screw part of the base socket
Material of terminal screw:	Chromated iron
Case color and material:	Ivory, heat-resistant ABS resin (94V-0)
Mounting:	DIN rail or wall surface
Dimensions:	Refer to Dimensional Drawing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