Isolator





Ordering code



•		
Code	Model	
DZ	Response time 200ms	
	(0-90%)	
DS	Response time 25ms	
	(0-90%)	

_↓ '			
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	
16	0 to 50mVdc	1MΩ	
17	0 to 60mVdc	1MΩ	
20	±10mVdc	1MΩ	
21	±50mVdc	1MΩ	
22	±100mVdc	1MΩ	
23	±1Vdc	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	
34	0 to 16mAdc	50Ω	
35	0 to 20mAdc	50Ω	
36	4 to 20mAdc	50Ω	
40	±1mAdc	100Ω	
41	±20mAdc	50Ω	
	Contact us for other than the above		
00	Full Scale Range:		
99	Current input 10µA to 20mA		
	Voltage input 10mV to 300V		

_	
Code	Power Supply
1	100Vac ±10% 50/60Hz
2	200Vac ±10% 50/60Hz
3	24Vdc ±10%
4	110Vac ±10% 50/60Hz
5	220Vdc ±10% 50/60Hz
8	110Vdc ±10%

Code	Output	Allowable Load	
Α	4 to 20mAdc	750Ω or less	
В	1 to 5mAdc	3kΩ or less	
С	2 to 10mAdc	1.5kΩ or less	
D	0 to 1mAdc	15kΩ or less	
E	0 to 10mAdc	1.5kΩ or less	
F	0 to 16mAdc	937Ω or less	
G	0 to 20mAdc	750Ω or less	
Н	1 to 5Vdc	2.5kΩ or more	
J	0 to 10mVdc	10kΩ or more	
K	0 to 100mVdc	100kΩ or more	
L	0 to 1Vdc	500Ω or more	
Ν	0 to 5Vdc	2.5kΩ or more	
Р	0 to 10Vdc	5kΩ or more	
R	±10Vdc	5kΩ or more	
	Contact us for other than the above Current output 20mA or less		
S			
	Voltage output 10V or less		

This plug-in type converter (isolator) provides signal output which is

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.

mutually isolated between input, output and power-supply.

★ Fine zero & span adjustment by 25 turn trimmer
★ Safe design by dielectric strength of 3000Vac

 \star Easy maintenance by plug-in structure

Features

★ CE approved

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

Specifications

Terminal connections

Acourcov

Description

Accuracy	± 0.17610 (at 25 C)	
Response time	DS : Approx. 25ms (0 to 90%)	
	DZ : Approx. 200ms (0 to 90%)	
Allowable load resistance	Current output	
	15V or less of voltage drop between output	
	Voltage output	
	Load current 2mA or less	
	For 1V FS or less of output the current is 1µA or less	
	· · ·	
Zero & span adjustment	±20% FS (25 turn trimmer)	
Operating temperature	-5 to +55°C	
Storage temperature	-10 to +60°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	3000Vac for 1 minute between power supply and	
	input/output terminal,	
	2000Vac for 1 minute between input and output terminal	
Power consumption	Approx. 3.6VA (AC), Approx. 60mA (DC)	
Dimensions	97(H) X 51(W) X 126(D)mm	
Weight	Approx. 210g	
Structure	Plug-in	
Connection	M3.5 SEMS screw part of the base socket	
	(Tightening torque 0.8N·m)	
Material of terminal screw	Chromated iron	
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	

(nt



	Olyriai	Description	
1	OUTPUT(+)	Output	
2	OUTPUT(-)	Output	
3	INPUT(+)	loput	
4	INPUT(-)	input	
5	NC	No connection	
6	NC		
7	POWER U(+)	Dowor Supply	
8	POWER V(-)	Fower Supply	
	·		

Signal

* Specification is subject to change without notice

Watanabe Electric Industry Co. Ltd.