

General Specifications

HIGH SPEED ISOLATOR



This instrument receives DC voltage and current as input signal and provides conversion output in state that the input, output is separated completely. Especially, input & output has built in photo-coupler and power, input & output have built in 3 way isolation circuit separated by transformer.

This is a high accurate converter which is the most compatible to protection of impulse noise, high peak voltage form isolation with field instrument, required of high-speed response and from computer interface, etc.

SPECIFICATIONS

ITEMS	DESCRIPTIONS
INPUT	DC signal (Current input to be combined through the application of precise resistor shunt)
OUTPUT	DC Current or DC Voltage Signal
ACCURACY	$\pm 0.3\%$ Max.
TEMP. COEFFICIENT	$\pm 0.02\%$ / $^{\circ}\text{C}$
LINEARITY	$\pm 0.02\%$ F.S
REPEATABILITY	$\pm 0.02\%$ F.S
RESPONSE TIME	Less than 1mSec (0-90%)
INSULATION RESISTANCE	Greater than 100M Ω at DC 500V
DIRECTRIC-STRENGTH	Input-Power AC1,500V
	Input-Output AC1,500V
	Input-Ground AC1,500V
	1 minute
POWER SUPPLY	AC110V AC220V $\pm 10\%$ 50-60Hz 3.5VA
AMBIENT-TEMP	-5 ~ +55 $^{\circ}\text{C}$ (20 ~ 130 $^{\circ}\text{F}$)
HUMIDITY	Less than 90% RH (no condensation)
LINEARIZER	Standard function
CASE MATERIAL	AL
COLOR	BLACK
WEIGHT	About 500g
DIMENSION	W42 x H90 x D120mm
MOUNTING	WALL
OUTPUT	
LOAD RESISTANCE	Refer to Attached Technical Sheet.

ORDERING CODE

MODEL : D S H I - -

INPUT SIGNAL

1 DC 0~1mV	A DC 0~1mA	E DC 1~5mA
2 DC 0~10V	B DC 0~10mA	F DC 2~10mA
3 DC 0~5V	C DC 0~16mA	G DC 4~20mA
4 DC 1~5V	D DC 0~20mA	H Others

OUTPUT SIGNAL

1 DC 0~1mA
2 DC 0~10mA
3 DC 0~16mA
4 DC 0~20mA
5 DC 1~5mA
6 DC 2~10mA
7 DC 4~20mA
8 Other Current (Less than 20mA)
A DC 0~10mV
B DC 0~100mV
C DC 0~1V
D DC 0~10V
E DC 0~5V
F DC 1~5V
G Other Voltage (Less than 12V)

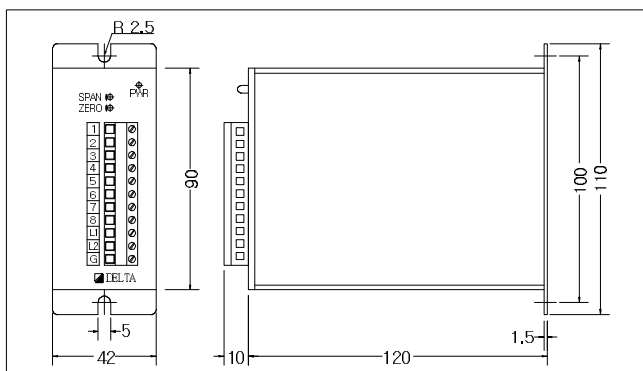
POWER SUPPLY

1 AC110V	2 AC 220V
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I/O ISOLATION

G : General	Y : Isolation
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DIMENSION



WIRING DIAGRAM

INPUT			OUTPUT			POWER	
1	+	SIGNAL	5	+	OUT	L1	U(+)
2	-		6	-		L2	V(-)
3	NC		7	NC		G	GND
4			8				