

FC SERIES ISOLATOR

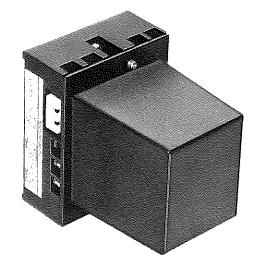
DATA SHEET I

PRL

The FC series isolator is designed to convert input signals into other signals as required in addition to providing isolation between input and output. This system is therefore suitable when connecting an FC system with other systems or to prevent stray current.

FEATURES

- 1. Mounting and wiring are simple since the isolator is compact, lightweight and the external terminals are in a stacked arrangement.
- 2. Instruments with an accuracy of either ±0,25% or ±0.5% are available.
- 3. A variety of input and output signals are available, to allow a wide range of applications.



SPECIFICATIONS

Input signal and input resistance:

DC 1 to 5V (bias current 1μ A or less)

DC 0 to 10V (approx. $36k\Omega$) DC -10 to +10V (approx. 35k Ω)

Output signal and allowable load resistance:

DC 0 to 10V ($2k\Omega$ or more) DC1 to 5V (1k Ω or more)

DC -10 to +10V (10k Ω or more) ±0.5% of full span; ±0.25% of ful

Allowance: span also available on request

Reproducibility: ±0.1% of full span

Response time: Approx. 0.1 sec (for 99.5% response) Power supply: DC 24V (DC 20 to 30V) or AC 24V

+13 -10 %, 50/60Hz

Power consumption:

	DC 24V	AC 24V
Current output	Approx. 2W	Approx.4VA
Voltage output	Approx. 1W	Approx.2VA

Isolation characteristic:

Between input and output, between input and power supply, and between

output and power supply Withstand voltage; AC 1500V for

1 minute

Insulation resistance; $100M\Omega$ or more at DC 500V

Ambient temperature:

0 to 45°C

Ambient humidity:

90% RH or less

Outer dimensions (H x W x D):

100 x 80 x 110 mm

Weight:

Finish color:

Approx. 0.5 kg

Case; black (molded synthetic resin)

Cover; semi-transparent (molded

synthetic resin)

Scope of delivery:

Isolator and mounting screws

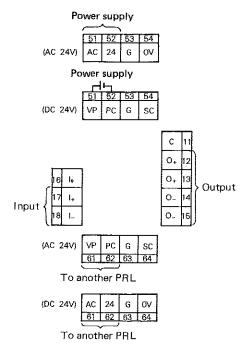
CODE SYMBOLS

PRL		1	Description	
, , ,		1 !	Input signal	
А		 	- DC 1 to 5V	
В		<u></u>	DC 4 to 20mA	
С	}-		DC 10 to 50mA	
D		· · · · · · · · · · · · · · · · · · ·	DC 0 to 20mA	
E		-[]	- DC 0 to 50mA	
F	; -		- DC 0 to 10V	
G			DC -10 to +10V	
L		1	Output signal	
	Α		- DC 1 to 5V	
	В	‡	- DC 4 to 20mA	
	D	<i>i</i>	- DC 0 to 20mA	
	F		- DC 0 to 10V	
	G٠	ļ	- DC10 to +10V	
			Allowance	
	1		- ±0.5%	
	2		- ±0.12%	
	1		Power supply	
		1	DC 24V	
		7	- AC 24V 50/60Hz	

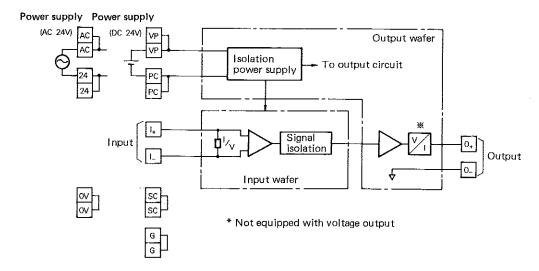
OUTLINE DIAGRAM (Unit:mm)

8 76 80 Mounting method B Ī 8 Ð $\overline{\mathbb{B}}$ M4 screw

CONNECTION DIAGRAM



BASIC CIRCUIT DIAGRAM



Fuji Electric Co.,Ltd.

12-1 Yurakucho 1-chome Chiyoda-ku, Tokyo, 100 Japan Phone: Tokyo 211-7111

Telex: J22331 FUJIELEA or FUJIELEB