# Load cell converter

TW-3S



Converter which outputs DC signal proportional to the load cell signals

#### Features

- ★ Converts load cell signal to DC voltage or DC current
- ★ 3 port isolation between Input-Output-Power supply
- ★ DIN rail mount
- ★ Terminal block type

#### **Ordering code**



Output	Allowable Load Resistance		
to 5VDC	$2k\Omega$ or more		
to 5VDC			
to 10VDC	4kΩ or more		
to 20mVDC	550Ω or less		
to 20mVDC			
Contact us for other than the above			
Current output : 20mA or less, Min. span : 1mA Voltage output : ±10V, Min. span : 1V			

Code	Load Cell	Allowable	Tare
	Applied Voltage	current	Adjustment
1	2.5V		±0.25mV/V (Input conversion)
2	5V	30mA	
3	10V		

## **Specifications**

Input signal	Load Cell∶Strain Gauge Sensors (350Ω)
Output signal	DC current / voltage
Accuracy	±0.25% of span (at 25°C ±2°C)
Temperature coefficient	±0.03% of span per °C
Response time	10ms ( 0 to 90%)
Insulation resistance	100MΩ or more with 500Vdc megger
	Between input, output, and power supply terminal
Dielectric strength	1500Vac for 1 minute
	Between input, output, power supply terminal
	Leak current 2mA
Power supply voltage	24VDC ±10%
Power consumption (current)	120mA or less
Operating temperature range	-5 to +50°C
Operating relative humidity	90% or less (Non-condensing)
Case color and material	Black PBT
Dimensions	98(H) X 48(W) X 41(D)mm
Weight	Approx. 120g

## Demensions





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## Terminal connections



No	Symbol		Description	
1	AG		Analog ground	
2	NC		No connection	
3		+	Applied Voltage	
4	BRIDGE BRIVE	-	ripplied voltage	
5		+	Input	
6		-	input	
7		+	Output	
8	0011 01	-	Output	
9	NC		No connection	
10	NC			
11		+	Power Supply	
12	FOWER	-	Fower Supply	



Block diagram



\* Specification is subject to change without notice

#### Watanabe Electric Industry Co., Ltd.