

# Digital Alarm Setter

## TW-3R

**NEW!**



### ■ Features

- DIN rail mount
- Hi and Lo setpoints
- Power supply 24V DC

### ■ DC voltage measurement

Range	Measurement	Display	Input impedance	Input Protection
0	0 to 5V	Offset ± 9999	1M Ω	± 250V
1	1 to 5V	Fullscale	1M Ω	
2	0 to 9.999V	± 9999	1M Ω	

Accuracy: ± (0.1% of rdg +2 digit) (23°C ± 5°C 35 to 85%RH)

### ■ DC current measurement

Range	Measurement	Display	Input impedance	Input Protection
A	4 to 20mA	Offset ± 9999 Fullscale ± 9999	50 Ω	± 60mA

Accuracy: ± (0.1% of rdg +2 digit) (23°C ± 5°C 35 to 85%RH)

### ■ Specification

#### ● Measuring Section

Input configuration : Single ended  
 Conversion rate : 12.5times/sec (50Hz), 15times/sec (60Hz)  
 Noise rejection ratio : NMR40dB or more (50/60Hz)  
 Display : Red LED 8mm height  
 Polarity display : Automatic "-" display when the computation result is minus

Overrange warning : When input exceeds the maximum display, display "o.L" or "-o.L"

Maximum display : ± 9999 (4 digit)  
 Decimal point : Settable to any digit position  
 Zero display : Leading zero suppression  
 Temp. coeff. : ± 100ppm/°C

#### ● Common Section

Memory backup : EEPROM (rewrite 100,000times)  
 Operating temp. : 0 to 50°C 35 to 85%RH  
 Storage temp. : -10 to +70°C less than 60%RH  
 Power supply : 24V DC ± 20%  
 Power consumption : 70mA (TYP) at 24V DC  
 Dimensions : 48mm (W) × 98mm (H) × 41mm (D)  
 Weight : approx. 140g (unit only)  
 Dielectric strength : Input (LO) and comparator output 500V DC per min.

Case material : Black PBT  
 Insulation resistance : 500V DC 500M ohm or more as the above terminals

Excitation supply : 24V DC ± 10% 25mA ripple less than 200mVp-p

Accessories : Instruction manual, terminal cover, connector

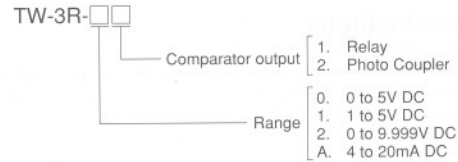
#### ● Comparison Section

Control method: Computation by microcomputer  
 Setting range: -9999 to +9999  
 Operating: By conversion rate  
 Comparison condition: Hi setpoint < Measured value → HI  
 Hi setpoint ≥ Measured value ≥ Lo setpoint → GO  
 Measured value < Lo setpoint → LO

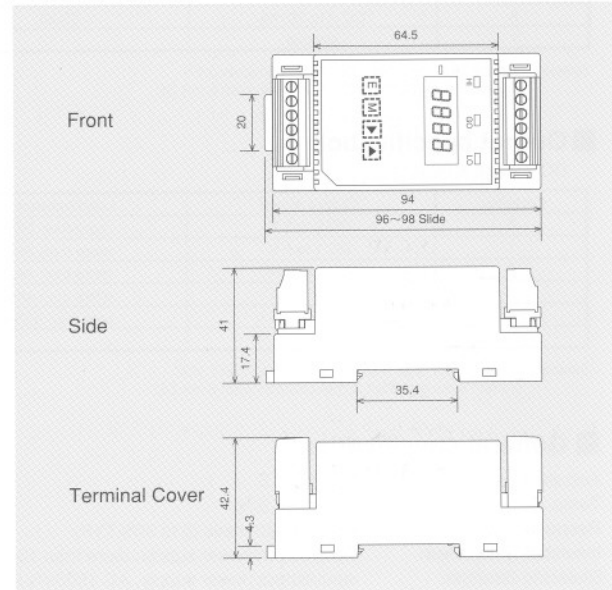
Relay output capacity: 30V DC/1A resistive load  
 125V AC/0.5A resistive load

Photo coupler output capacity: Voltage max. 30V  
 Current max. 50mA  
 Saturation voltage less than 1.2V at 50mA

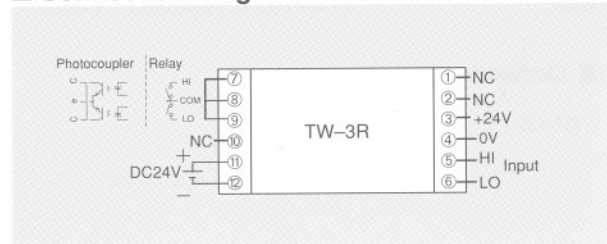
### ■ Ordering Code



### ■ Dimensions



### ■ Connection Diagram



Transmitter

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