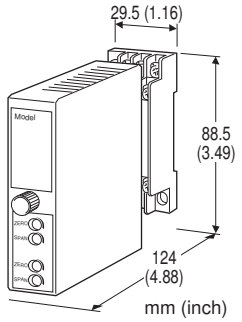
Space-saving Dual Output Signal Conditioners
Mini-MW Series

ISOLATOR

Functions & Features
- Galvanically isolating the input and output signals
- Universal power input
- High-density mounting

Typical Applications
- Isolation between control room and field instrumentation
- Eliminating ground loops



MODEL: W2YV–[1][2][3]-[4][5]

ORDERING INFORMATION

- Code number: W2YV-[1][2][3]-[4][5]

Specify a code from below for each of [1] through [5].
(e.g. W2YV-6A6-M/Q)
- Specify the specification for option code /Q

(e.g. /C01 /V01)

Note: When the user requires a current and a voltage output, specify the current to be the Output 1 which allows a greater load.

[1] INPUT

Current
A: 4 – 20 mA DC (Input resistance 250 Ω)
Voltage
6: 1 – 5 V DC (Input resistance 1 MΩ min.)

[2] OUTPUT 1

Current
A: 4 – 20 mA DC (Load resistance 750 Ω max.)
Voltage
6: 1 – 5 V DC (Load resistance 5000 Ω min.)

[3] OUTPUT 2

Y: None
Current
A: 4 – 20 mA DC (Load resistance 350 Ω max.)
Voltage
6: 1 – 5 V DC (Load resistance 5000 Ω min.)

[4] POWER INPUT

AC Power
M: 85 – 264 V AC (Operational voltage range 85 – 264 V, 47 – 66 Hz)
DC Power
R2: 11 – 27 V DC
(Operational voltage range 11 – 27 V, ripple 10 %p-p max.)

[5] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating
ADJUSTMENT
/V01: Multi-turn fine adjustment
TERMINAL SCREW MATERIAL
/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in
Connection: M3 screw terminals (torque 0.8 N·m)
Screw terminal: Chromated steel (standard) or stainless steel
Housing material: Flame-resistant resin (black)
Isolation: Input to output 1 to output 2 to power
Overrange output: Approx. -10 to +120 % at 1 – 5 V
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)
Adjustable individually for each output 1 and output 2.

INPUT SPECIFICATIONS

■ DC Current:
Shunt resistor attached to the input terminals (0.5 W)

INSTALLATION

Power Consumption

•**AC**:
Approx. 4 VA at 100 V
Approx. 5 VA at 200 V
Approx. 6 VA at 240 V

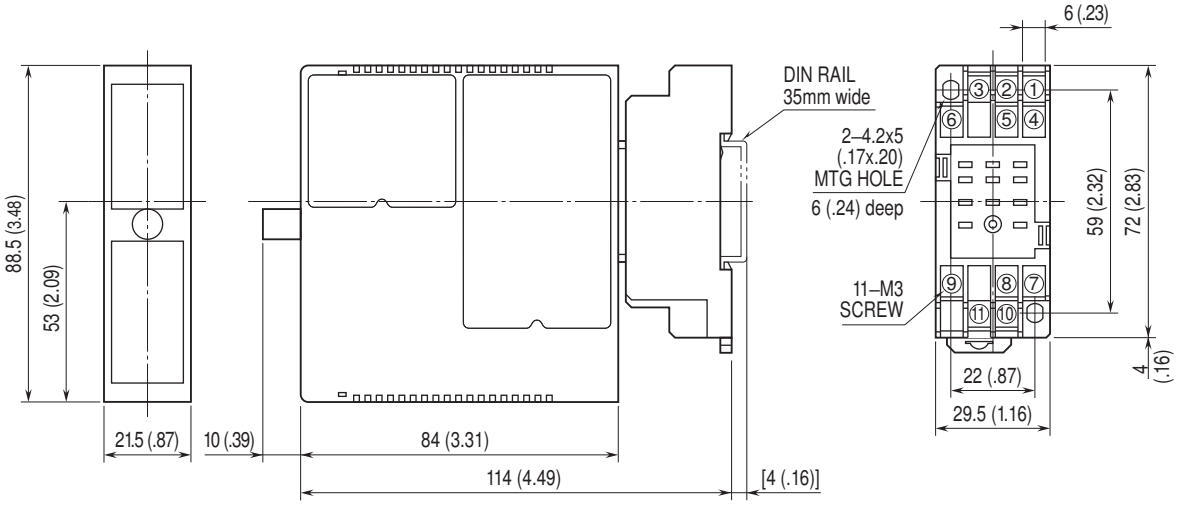
•**DC**: Approx. 3 W

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 200 g (0.44 lb)

PERFORMANCE in percentage of span

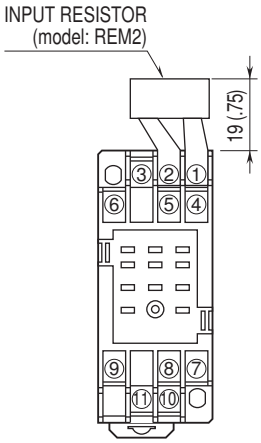
Accuracy: ±0.1 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute (input to output 1 to output 2 to power to ground)

EXTERNAL DIMENSIONS unit: mm (inch)



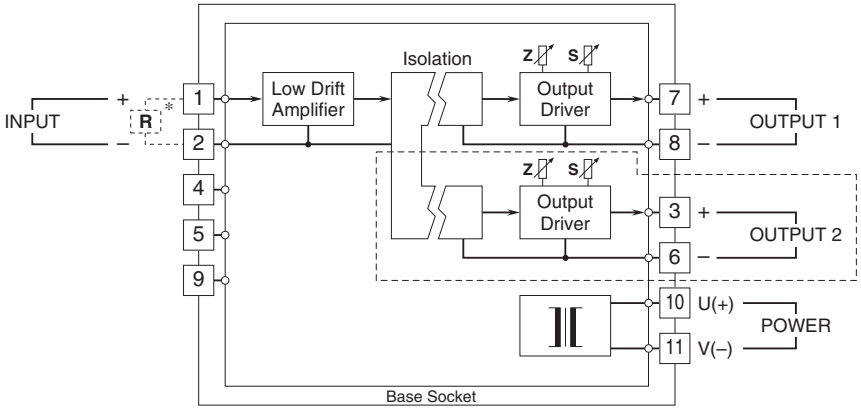
• When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm (inch)



Input shunt resistor attached
for current input.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor attached for current input.
Note: The section enclosed by broken line is only with 2nd output option.

⚠ Specifications are subject to change without notice.