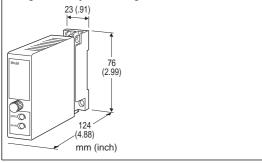
MODEL: M2RR

Super-mini Signal Conditioners Mini-M Series

RESISTANCE/RESISTANCE CONVERTER

Functions & Features

- Accepts a resistance input from an RTD and provides a multiplied resistance value
- · High-density mounting



MODEL: M2RR-[1]-[2][3]

ORDERING INFORMATION

Code number: M2RR-[1]-[2][3]
 Specify a code from below for each [1] through [3].
 (e.g. M2RR-5-M/Q)

• Input resistance range (e.g. $100 - 150 \Omega$) • Specify the specification for option code /Q (e.g. /C01/S01)

[1] I/O RATIO

(n = Output / Input)

2: n = 2 5: n = 5 10: n = 10

0: Specify 'n' (≥ 1.20)

[2] 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.)

P: 110 V DC

(Operational voltage range 85 - 150 V, ripple 10 %p-p max.)

[3] OPTIONS

OTHER OPTIONS

blank: none

/Q: Option other than the above (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

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3 screw terminals (torque 0.8 N·m) **Housing material**: Flame-resistant resin (black)

Isolation: Input or output to power (non-isolated between

input and output)

Zero adjustment: ±2 % of the output resistance (measuring

current ≤ 2 mA DC)

Span (gain) adjustment: ± 5 % of the output resistance

I/O ratio: 1.20 - 100.00

INPUT SPECIFICATIONS

Resistance: 40 Ω to 5 $k\Omega$

OUTPUT SPECIFICATIONS

Resistance: 80 Ω to 10 $k\Omega$

Maximum measuring voltage: 12 V DC
Minimum measuring current: 1 mA DC
Maximum measuring current: 20 mA DC
Note: AC measurement is unable.

INSTALLATION

Power Consumption

AC Power input

Approx. 1.0 VA at 100 V Approx. 2.5 VA at 200 V Approx. 3.5 VA at 264 V •DC Power input: Approx. 0.5 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: 150 g (0.33 lbs)

PERFORMANCE based on the resistance output

Accuracy: \pm 0.1 % or 0.1 Ω , whichever is greater. **Temp. coefficient**: \pm 0.04 %/°C (\pm 0.02 %/°F)

 $(n = 5, Rin = 100 \Omega, Is = 7 mA)$

The following equation is applied for other cases:

TEL: (02)2598-1199 E-mail: info@xintop.com

Website: www.xintop.com

Temp. coefficient (%/°C) = $(5 \times n)$ / (Rin $(\Omega) \times Is$ (mA))

n = I/O ratio

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Rin = Input resistance Is = Measuring current



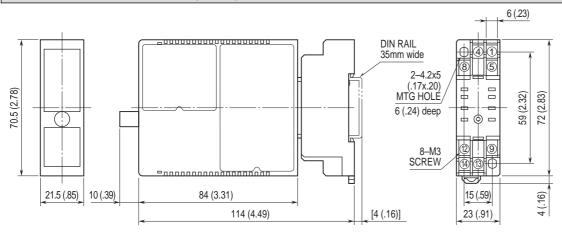
Response time: \leq 50 msec. (0 - 90 %)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

Dielectric strength: 2000 V AC @1 minute (input or output

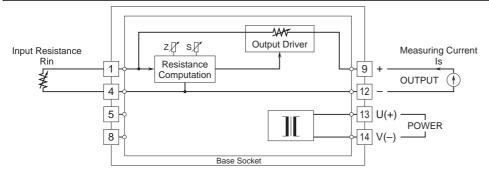
to power to ground)

DIMENSIONS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.

幸託有限公司 XIN TOP CORPORATION

FAX: (02)2596-2331 Website: www.xintop.com