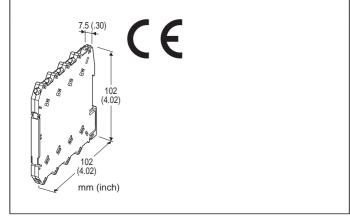
Remote I/O R6 Series

4 - 20 mA INPUT MODULE

(Screw terminal)

Functions & Features

• Compact size remote I/O module for 2-wire transmitter



MODEL: R6N-DS1[1]

ORDERING INFORMATION

Code number: R6N-DS1[1]
 Specify a code from below for [1].
 (e.g. R6N-DS1/Q)

 Specify the specification for option code /Q (e.g. /C01)

[1] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating

RELATED PRODUCTS

PC configurator software (model: R6CON)

 Downloadable at M System's web site.

Downloadable at M-System's web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R6N-BS)

Input: M3 screw terminals (torque 0.5 N·m)

Internal power: Via the Installation Base (model: R6N-BS) **Recommended solderless terminal**: Max. 5.8 mm (0.23")

wide; Ones with insulation sleeve do not fit.

Applicable wire size: 0.2 - 2.5 mm²

Housing material: Flame-resistant resin (black) **Isolation**: Input to internal bus or internal power

Zero adjustments: PC programming **Span adjustments**: PC programming

Module address: Selectable with DIP and rotary switches on

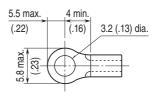
the side

Configuration mode: With DIP switches on the side panel **Power indicator**: Green LED; Refer to the istruction manual

for details.

Status indicator: Bi-color (red/green) LED; Refer to the instruction manual for details.

■Recommended solderless terminal (unit: mm (inch))



SUPPLY OUTPUT

(across the terminals 3 - 4)

Output voltage: 24 - 28 V DC with no load

19 V DC min. at 20 mA

Current rating: ≤ 22 mA DC

Permissible leadwire resistance:

R L \leq ((19 - min. XMTR Operational Voltage) V \div 0.02 A) Ω

Shortcircuit Protection
 Current limited: 45 mA max.
 Protected time duration: No limit

INPUT SPECIFICATIONS

■ DC Current: 4 - 20 mA DC

Input resistance: 250 Ω resistor incorporated

INSTALLATION

Current consumption: 55 mA

Operating temperature: $-10 \text{ to } +55^{\circ}\text{C}$ (14 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust **Mounting**: Installation Base (model: R6N-BS)

Weight: 60 g (2.1 oz)

PERFORMANCE

Conversion rate (PC programmable. Factory set to 80 msec.)/conversion accuracy:

10 msec./±0.8 %



MODEL: R6N-DS1

20 msec./±0.4 % 40 msec./±0.2 % 80 msec./±0.1 % Data range: 0 - 10000 Data allocation: 1

Temp. coefficient: $\pm 0.01 \%$ °C ($\pm 0.006 \%$ °F)

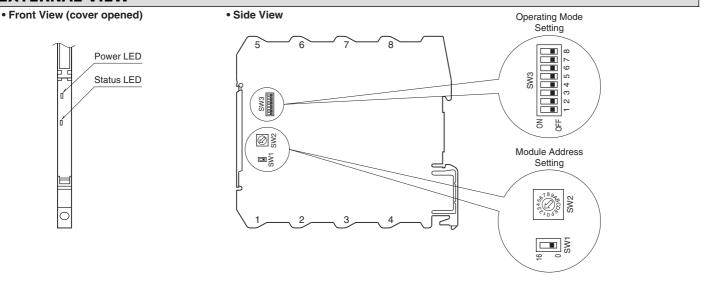
Response time: Conversion rate \times 2 + 50 msec. or less

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input to internal bus or internal power to ground)

STANDARDS & APPROVALS

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive EN 50581

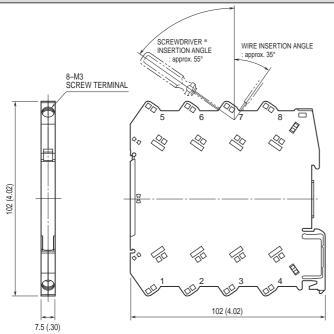
EXTERNAL VIEW



Refer to the instruction manual for setting procedures.

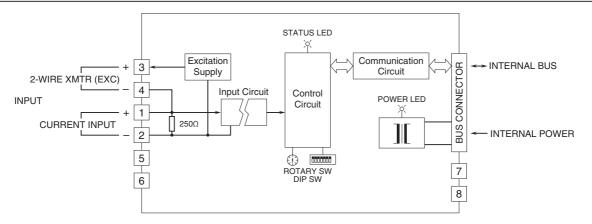
MODEL: R6N-DS1

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



^{*}Screwdriver stem diameter: 6 mm (.24") or less

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.