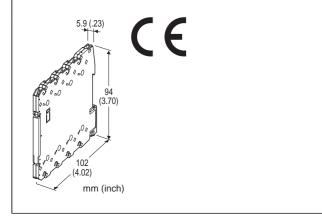
Remote I/O R6 Series

4 - 20 mA INPUT MODULE

(Tension clamp)

Functions & Features

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



MODEL: R6S-DS1[1]

ORDERING INFORMATION

Code number: R6S-DS1[1]
 Specify a code from below for [1].
 (e.g. R6S-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.

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: R6S-BS)

Input:Tension clamp

(Applicable wire size: 0.2 to 2.5 mm², stripped length 8 mm) **Internal power**: Via the Installation Base (model: R6S-BS)

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.

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 to +55°C (14 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust **Mounting**: Installation Base (model: R6S-BS)

Weight: 60 g (2.1 oz)

PERFORMANCE

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

10 msec./±0.8 % 20 msec./±0.4 %

40 msec./±0.2 % 80 msec./±0.1 %

Data range: 0 - 10000 Data allocation: 1

Temp. coefficient: ±0.01 %/°C (±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

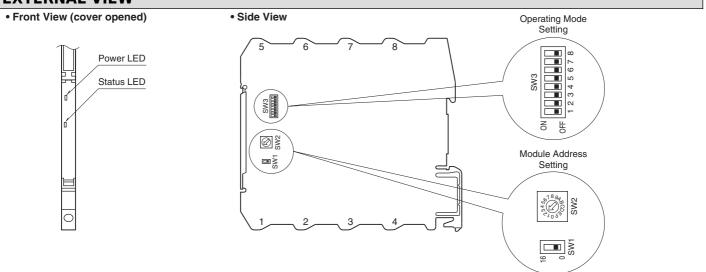
EMI EN 61000-6-4

EMS EN 61000-6-2

RoHS Directive

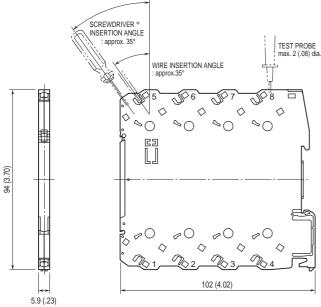
EN 50581

EXTERNAL VIEW



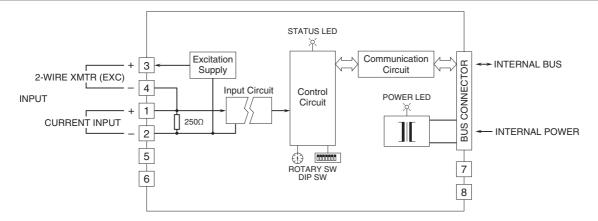
Refer to the instruction manual for setting procedures.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



*Use a minus screwdriver: tip width 3.8 mm max., tip thickness 0.5 to 0.6 mm

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.