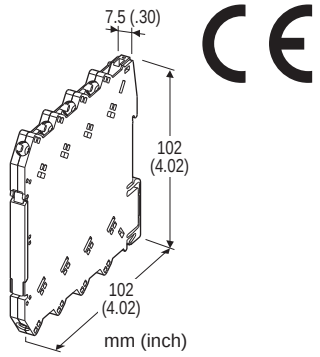
Remote I/O R6 Series

DC CURRENT INPUT MODULE

(2 points, Screw terminal)

Functions & Features

• 2 channels for DC current input, compact size remote I/O module
• Isolation between channels
• Input range adjustment with DIP switch or PC configurator



MODEL: R6N–SS2[1]

ORDERING INFORMATION

• Code number: R6N-SS2[1]
Specify a code from below for [1].
(e.g. R6N-SS2/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

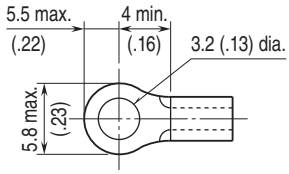
RELATED PRODUCTS

• 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: 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 mm^2
Housing material: Flame-resistant resin (black)
Isolation: Input 1 to input 2 to internal bus or internal power
Zero adjustments: PC programming
Span adjustments: PC programming
Input range: Selectable with the side DIP SW or 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))**



INPUT SPECIFICATIONS

■ Narrow Span: 1500 Ω input resistor incorporated
Input range: -1 – +1 mA, 0 – 1 mA DC
■ Wide Span: 24.9 Ω input resistor incorporated
Input range: -40 – +40 mA, -20 – +20 mA,
0 – 40 mA, 0 – 20 mA, 4 – 20 mA DC

INSTALLATION

Current consumption: 20 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: R6N-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 %

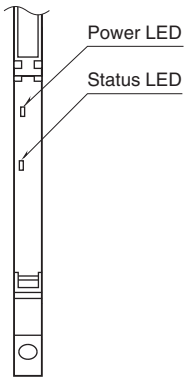
Data range: 0 – 10000 of the input range
Data allocation: 2
Temp. coefficient: ±0.01 %/°C (±0.006 %/°F)
Response time: Conversion rate × 2 + 50 msec. or less
Line voltage effect: ±0.1 % over voltage range
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500 V AC @ 1 minute (input 1 to input 2 to internal bus or internal power to ground)

STANDARDS & APPROVALS

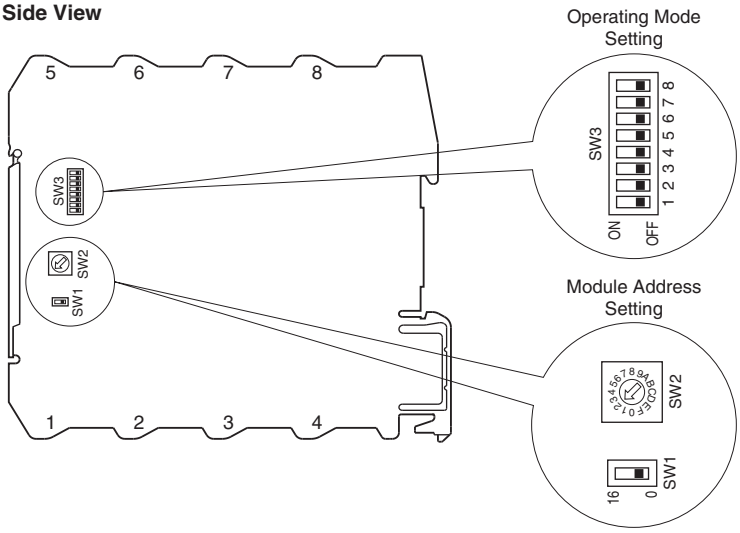
EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive
EN 50581

EXTERNAL VIEW

• Front View (cover opened)

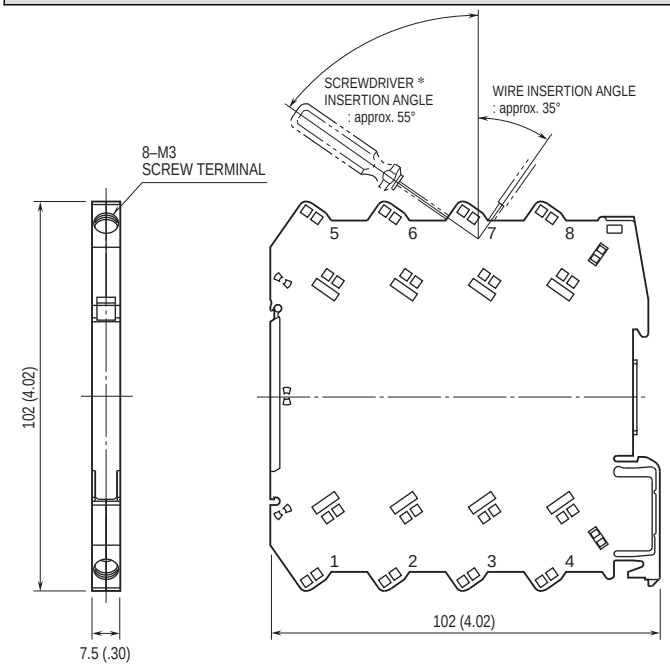


• Side View



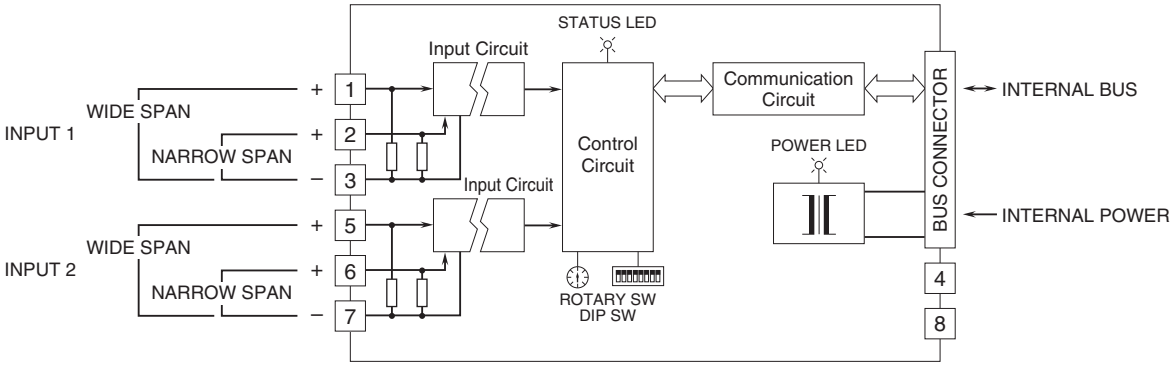
Refer to the instruction manual for setting procedures.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.