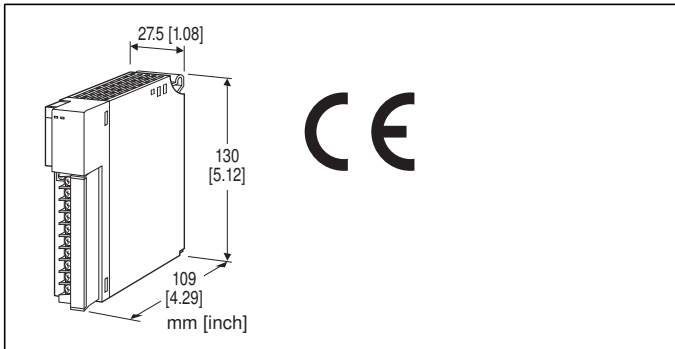


## Remote I/O R3 Series

/SET: Preset according to the Ordering Information Sheet  
(No. ESU-8405)

### DC CURRENT INPUT MODULE

(16 points, non-isolated)



### MODEL: R3-SS16N[1][2]

#### ORDERING INFORMATION

- Code number: R3-SS16N[1][2]  
Specify a code from below for each of [1] and [2].  
(e.g. R3-SS16NW/CE/Q)
- Specify the specification for option code /Q  
(e.g. /C01/SET)

#### NO. OF CHANNELS

16: 16

#### ISOLATION

N: Non-isolated between inputs

#### [1] COMMUNICATION MODE

S: Single  
W: Dual

#### [2] OPTIONS (multiple selections)

Standards & Approvals

blank: Without CE

/CE: CE marking

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 our web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

EX-FACTORY SETTING

#### CAUTION

##### ■ UNUSED INPUT CHANNELS

Set the unused channels to -20 - +20 mA or 0 - 20 mA range. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with 4 - 20 mA setting are equal to the input lower than -15 %, which sets a data abnormality at the PLC or the host device.

#### GENERAL SPECIFICATIONS

##### Connection

**Internal bus:** Via the Installation Base (model: R3-BSx)

**Input:** M3 separable screw terminal (torque 0.5 N·m)

**Internal power:** Via the Installation Base (model: R3-BSx)

**Screw terminal:** Nickel-plated steel

**Isolation:** Input to internal bus or internal power

**Input range:** Selectable with the side DIP SW (per 8 channels)

**Conversion rate:** Selectable with the side DIP SW

**RUN indicator:** Bi-color (red/green) LED;

Red when the bus A operates normally;

Green when the bus B operates normally;

Amber when both buses operate normally.

**ERR indicator:** Bi-color (red/green) LED;

Red with input circuit abnormality (AD converter response failure);

Green in normal operating conditions.

#### INPUT SPECIFICATIONS

**Input:** -20 - +20 mA, 0 - 20 mA, 4 - 20 mA DC

**Input resistance:** 75 Ω resistor incorporated

#### INSTALLATION

**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: R3-BSx)

**Weight:** 200 g (0.44 lb)

#### PERFORMANCE

**Conversion accuracy:** ±0.1 %

**Conversion rate:** 100 / 50 / 20 / 10 msec. selectable

**Data range:** 0 - 10000 of the input range

**Data allocation:** 16

**Current consumption:** 100 mA

**Temp. coefficient:** ±0.03 %/°C (±0.02 %/°F)

**Insulation resistance:** ≥ 100 MΩ with 500 V DC

**Dielectric strength:** 1500 V AC @ 1 minute  
 (input to internal bus or internal power)  
 2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

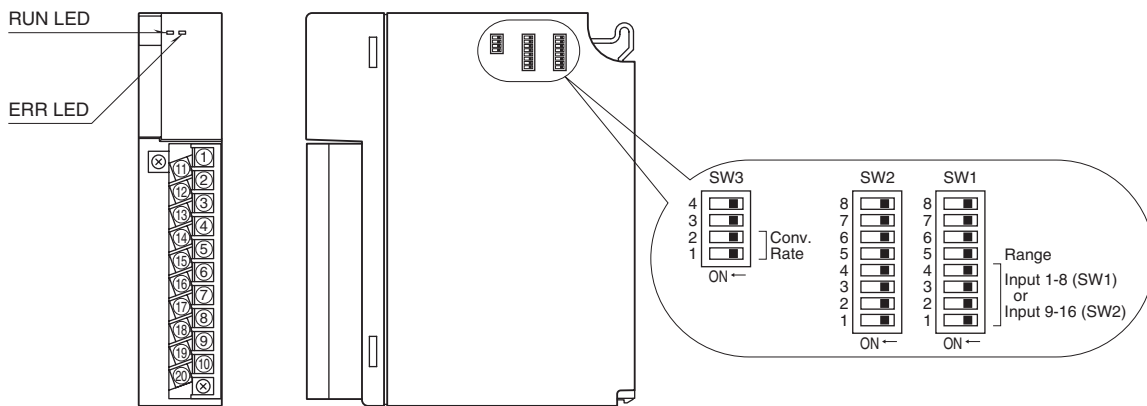
## STANDARDS & APPROVALS

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

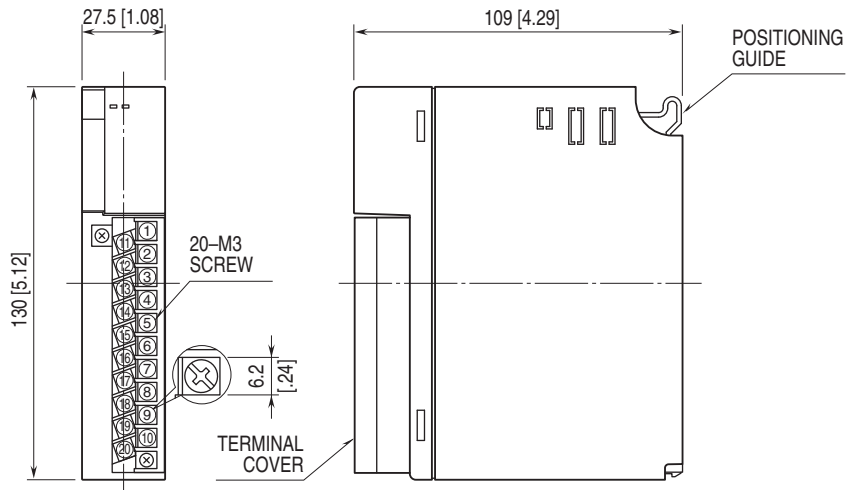
## EXTERNAL VIEW

■ FRONT VIEW

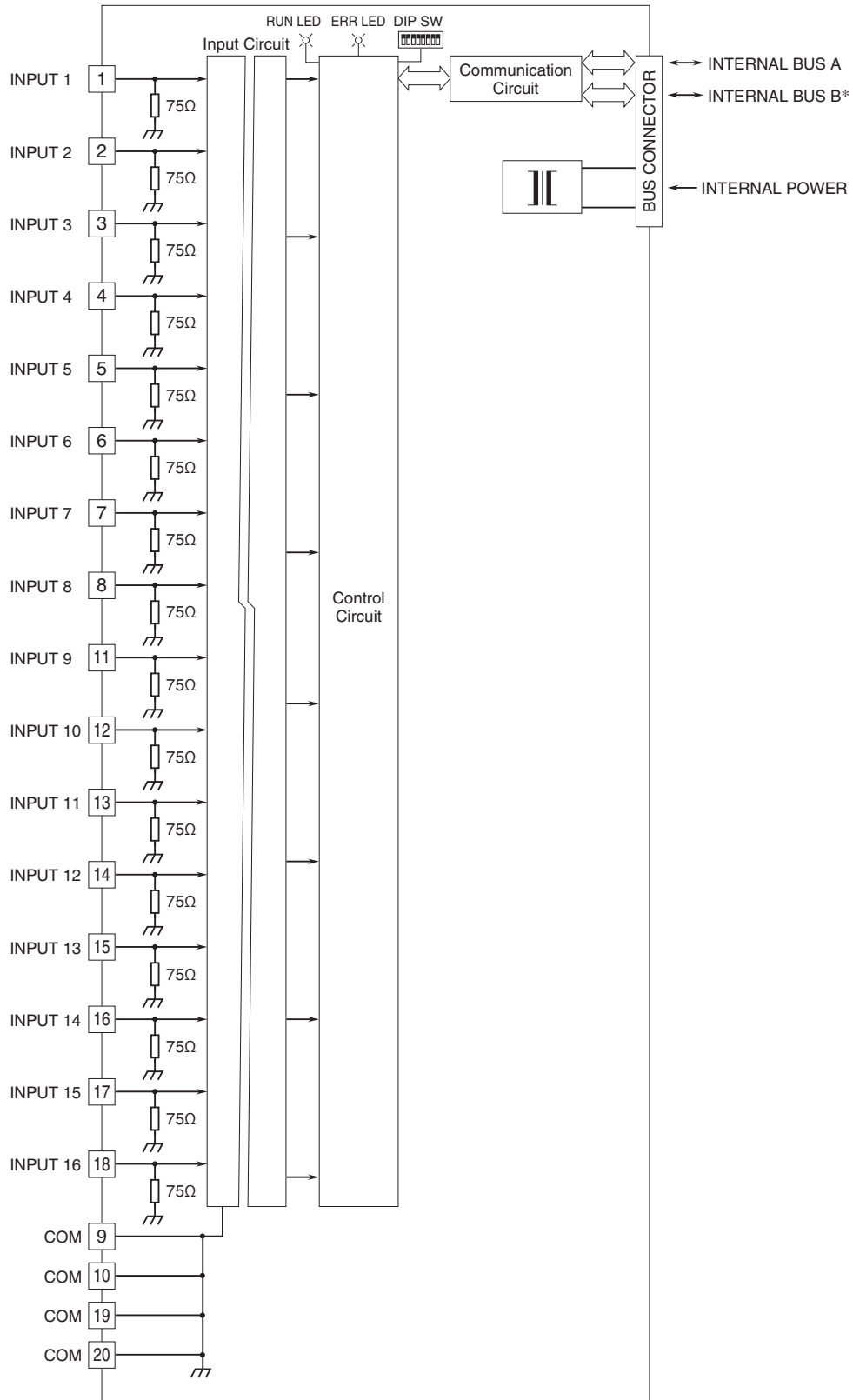
■ SIDE VIEW



## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



\*For dual redundant communication.



Specifications are subject to change without notice.