

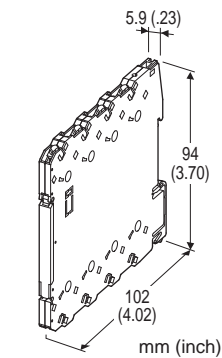
## Remote I/O R6 Series

### POWER SUPPLY MODULE

(Tension clamp)

#### Functions & Features

- Provides internal power needed for I/O and network modules from power input



### MODEL: R6S-PF1-R[1]

#### ORDERING INFORMATION

- Code number: R6S-PF1-R[1]

Specify a code from below for [1].

- (e.g. R6S-PF1-R/Q)
- Specify the specification for option code /Q (e.g. /C01)

#### POWER INPUT

##### DC Power

R: 24 V DC

(Operational voltage range 24 V  $\pm$ 10 %, ripple 10 %p-p max.)

#### [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

#### GENERAL SPECIFICATIONS

##### Connection

**Internal bus:** Via the Installation Base (model: R6S-BS)

**RUN contact output, power supply:** Tension clamp

(Applicable wire size: 0.2 to 2.5 mm<sup>2</sup>, stripped length 8 mm)

**Internal power:** Via the Installation Base (model: R6S-BS)

**Housing material:** Flame-resistant resin (black)

**Isolation:** RUN contact output to internal bus or internal power or power input to FG

**Power indicator LED:** Green LED turns on when the power is supplied.

**RUN indicator:** Orange LED turns on in normal communication with the host PLC.

#### ■ RUN CONTACT OUTPUT

**RUN contact:** Terminals (2 - 3) turns ON and (4 - 3) OFF in normal communication with the host PLC;

Terminals (2 - 3) turns OFF and (4 - 3) ON in abnormal communication.

**Rated load:** 250 V AC @ 0.5 A (cos  $\phi$  = 1)

30 V DC @ 0.5 A (resistive load)

**Maximum switching voltage:** 250 V AC or 30 V DC

**Maximum switching power:** 250 VA or 150 W

**Minimum load:** 1 V DC @ 1 mA

**Mechanical life:**  $2 \times 10^7$  cycles (rate 300 cycles/min.) When driving an inductive load, external contact protection and noise quenching recommended.

#### INSTALLATION

##### Power input

• **DC:** Operational voltage range 24 V DC  $\pm$ 10 % ripple 10 % p-p max. Approx. 1 A with the maximum I/O extension

**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

**Insulation resistance:**  $\geq$  100 M $\Omega$  with 500 V DC

**Dielectric strength:** 2000 V AC @ 1 minute (RUN contact output to internal bus or internal power or power input to FG)

#### STANDARDS & APPROVALS

##### EU conformity:

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

Low Voltage Directive

EN 61010-1, EN 61010-2-201

Measurement Category II (RUN contact output)

Pollution Degree 2

RUN contact output to internal bus or power

supply: Reinforced insulation (300 V)

RoHS Directive

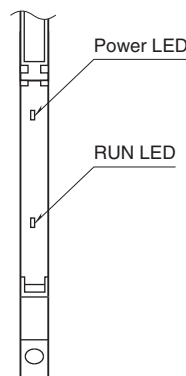
## CURRENT CONSUMPTION

The network module and I/O modules operate with 24V DC power supply via the power supply module. The total current consumption of the network module and I/O modules is required to be not more than 1 A. If the total current consumption exceeds 1 A, change the combination of I/O modules or reduce the number of I/O modules.

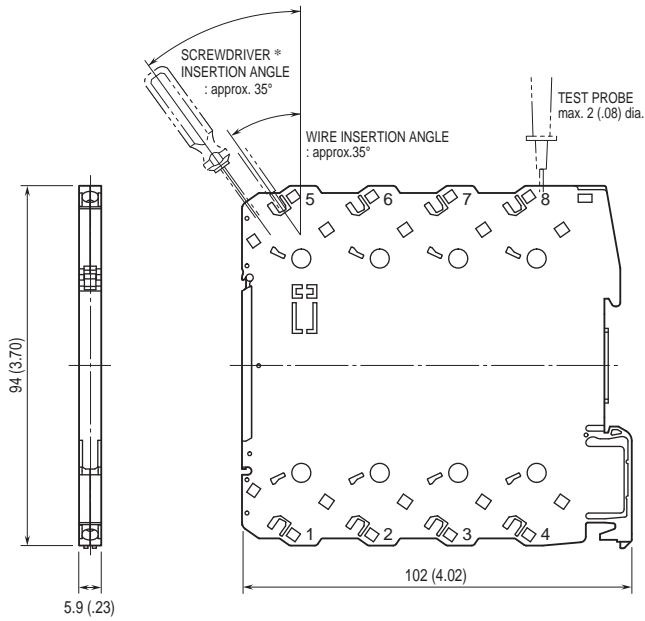
R6xSV2	20mA
R6xSS2	20mA
R6xTS2	20mA
R6xTS2A	20mA
R6xRS2	20mA
R6xDS1	55mA
R6xYV2	25mA
R6xYS2	45mA
R6xDA4	10mA
R6xDC4A	20mA
R6xDC4B	20mA
R6NC1	110mA
R6NC3	110mA
R6ND1	40mA
R6NE1	75mA
R6NE2	75mA
R6NM1	50mA
R6NM2	50mA
R6NF1	100mA
R6NP1	100mA

## EXTERNAL VIEW

(With the cover open)



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

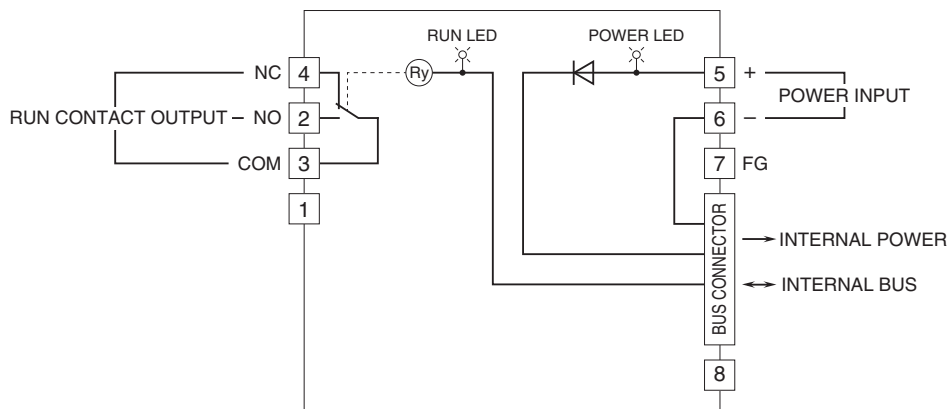


\*Use a minus screwdriver: tip width 3.8 mm max., tip thickness 0.5 to 0.6 mm

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

Note: In order to improve EMC performance, bond the FG terminal to ground.

Caution: FG terminal is NOT a protective conductor terminal.



Specifications are subject to change without notice.