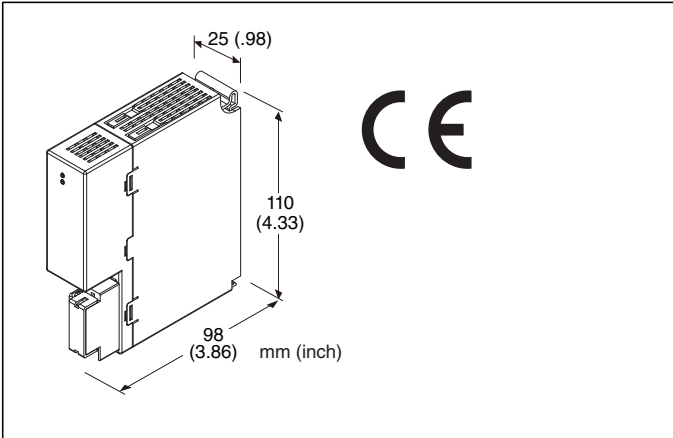


## Remote I/O R30 Series

### POWER SUPPLY MODULE

(Current capacity 750 mA)



### MODEL: R30PS1-R[1]

#### ORDERING INFORMATION

- Code number: R30PS1-R[1]  
Specify a code from below for [1].  
(e.g. R30PS1-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
- /C03: Rubber coating

#### GENERAL SPECIFICATIONS

##### Connection

- Internal bus:** Via the Installation Base (model: R30BS)
- RUN contact output:** M3 separable screw terminal (torque 0.5 N·m)
- Internal power:** Via the Installation Base (model: R30BS)
- Solderless terminal:** Refer to the drawing at the end of the

section.

**Recommended manufacturer:** Japan Solderless Terminal MFG. Co., Ltd., Nichifu Co., Ltd.

(Solderless terminals with insulation sleeve do not fit.)

**Applicable wire size:** 0.25 to 0.75 mm<sup>2</sup>

**Screw terminal:** Nickel-plated steel

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

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

**RUN indicator LED:** Green light turns on when the RUN contact output is closed.

#### ■ RUN CONTACT OUTPUT

**RUN contact output:** Turns ON (closed) while the network module operates normally.

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

30 V DC @ 0.5 A (resistive load)

(Less than 50 V AC to conform with EU Directive)

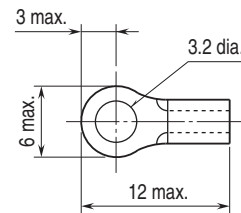
**Maximum switching voltage:** 250 V AC or 30 V DC

**Maximum switching power:** 250 VA or 30 W

**Minimum load:** 5 V DC @ 10 mA

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

■ **Recommended solderless terminal size - M3 (unit: mm)**



#### INSTALLATION

##### Power consumption

- DC: Approx. 21 W (Approx. 0.9 A at 24 V)

##### Internal power

- Max. rated output voltage / current: 21 V DC / 750 mA  
(The total current consumption of all mounted network and I/O modules must be within 750 mA.)

**Operating temperature:** -10 to +55°C (14 to 131°F)

**Storage temperature:** -20 to +65°C (-4 to +149°F)

**Operating humidity:** 10 to 90 %RH (non-condensing)

**Atmosphere:** No corrosive gas or heavy dust

**Mounting:** Installation Base (model: R30BS)

**Weight:** 150 g (0.33 lb)

#### PERFORMANCE

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

**Dielectric strength:** 1500 V AC @ 1 minute (Internal bus or internal power to power input to RUN contact output to FE)

## STANDARDS & APPROVALS

### EU conformity:

EMC Directive

EMI EN 61000-6-4

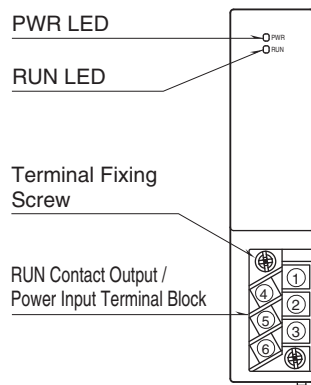
EMS EN 61000-6-2

RoHS Directive

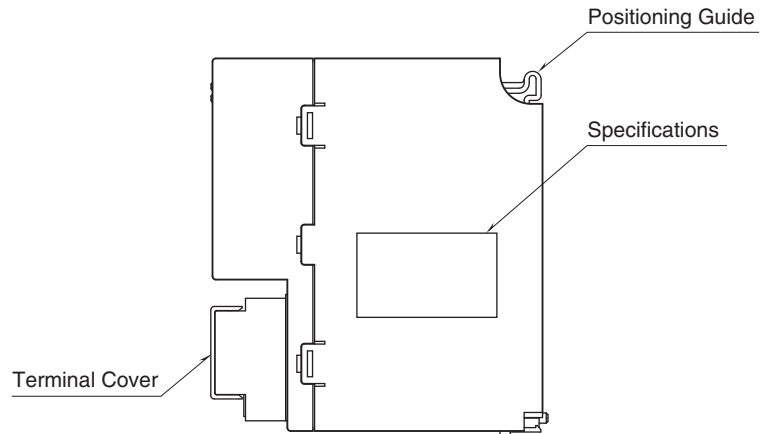
EN 50581

## EXTERNAL VIEW

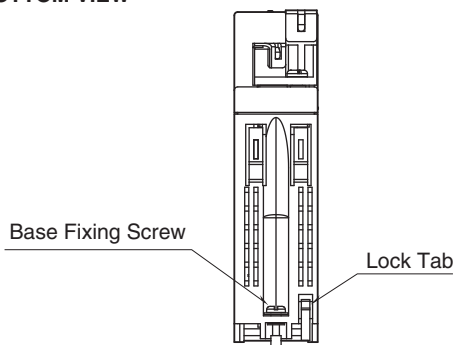
### FRONT VIEW



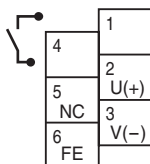
### SIDE VIEW



### BOTTOM VIEW

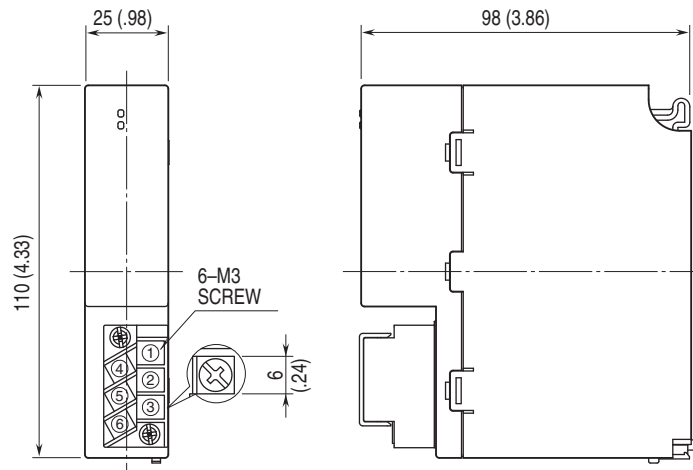


## TERMINAL ASSIGNMENTS



NO.	ID	FUNCTON
1	RUN contact output	RUN contact output
2	U (+)	Power supply (24 V DC)
3	V (-)	Power supply (0 V DC)
4	RUN contact output	RUN contact output
5	NC	Not used
6	FE	Functional earth

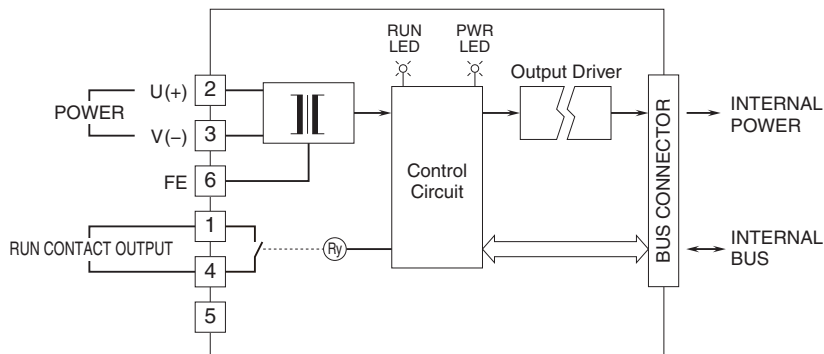
## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

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

Caution: FE terminal is NOT a protective conductor terminal.



Specifications are subject to change without notice.