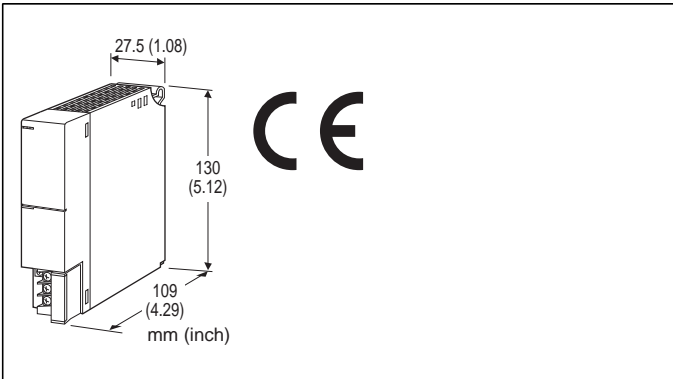


## Remote I/O R3 Series

### POWER SUPPLY MODULE



### MODEL: R3-PS1-[1][2]

#### ORDERING INFORMATION

- Code number: R3-PS1-[1][2]
- Specify a code from below for each [1] and [2]. (e.g. R3-PS1-R/CE/Q)
- Specify the specification for option code /Q (e.g. /C01)

#### [1] POWER INPUT

##### AC Power

- K:** 85 - 132 V AC  
(Operational voltage range 85 - 132 V, 47 - 66 Hz)  
(CE not available)
- L:** 170 - 264 V AC  
(Operational voltage range 170 - 264 V, 47 - 66 Hz)  
(CE Not available)

##### DC Power

- R:** 24 V DC  
(Operational voltage range 24 V  $\pm$ 10 %, ripple 10 %p-p max.)
- P:** 110 V DC  
(Operational voltage range 85 - 150 V, ripple 10 %p-p max.)  
(CE not available)

#### [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

##### COATING (For the detail, refer to M-System's web site.)

- /C01: Silicone coating
- /C02: Polyurethane coating
- /C03: Rubber coating

#### GENERAL SPECIFICATIONS

##### Connection

- **Internal power output:** Via the Installation Base (model: R3-BSx)
- **Power input, RUN contact output:** M3 separable screw terminal (torque 0.5 N·m)
- Screw terminal:** Nickel-plated steel
- Isolation:** Internal power to power input to RUN contact output to FG

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

**RUN contact:** Turns on (closed) while the power is supplied.  
(Available with Ver.1.01 or higher versions)

##### ■ RUN CONTACT OUTPUT

- Rated load:** 250 V AC @ 0.5 A ( $\cos \phi = 1$ )  
30 V DC @ 0.5 A (resistive load)  
(Max. 50 V AC to conform with EC Directive)
- 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 (300 cycles/min.)  
When driving an inductive load, external contact protection and noise quenching recommended.

#### INSTALLATION

**Power consumption** (Output current: 750 mA @ 20 V DC)

- **AC:** Approx. 45 VA
- **DC:** Approx. 29 W or 1.2 A at 24 V
- Output current:** 750 mA continuous at 20 V DC; 1000 mA for 10 minutes  
(Total current continuously consumed at the network modules and I/O modules must be within 750 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: R3-BSx)
- Weight:** 250 g (0.55 lb)

#### PERFORMANCE

- Insulation resistance:**  $\geq 100 \text{ M}\Omega$  with 500 V DC
- Dielectric strength:** 2000 V AC @ 1 minute  
(internal power to power input to RUN contact output to FG)

**STANDARDS & APPROVALS**

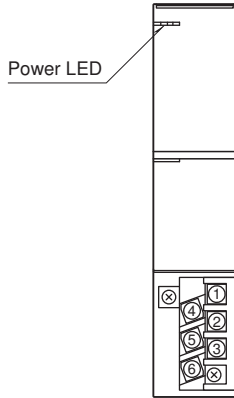
CE conformity:

EMC Directive (2004/108/EC)

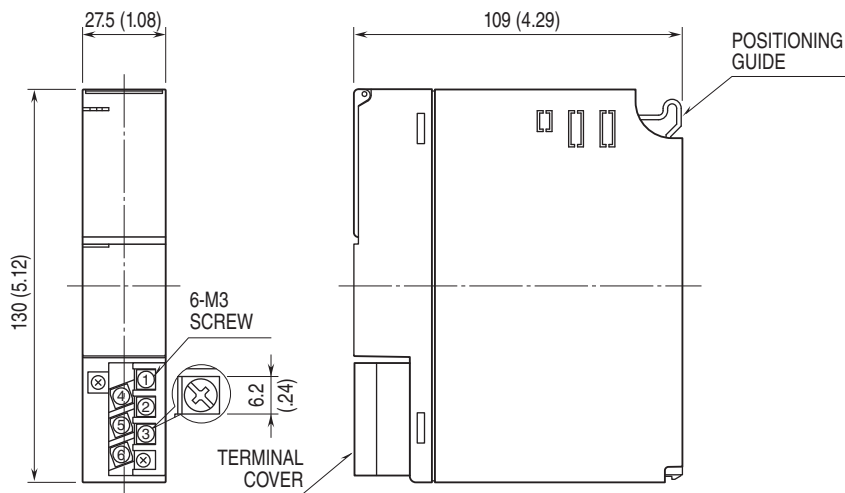
EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005

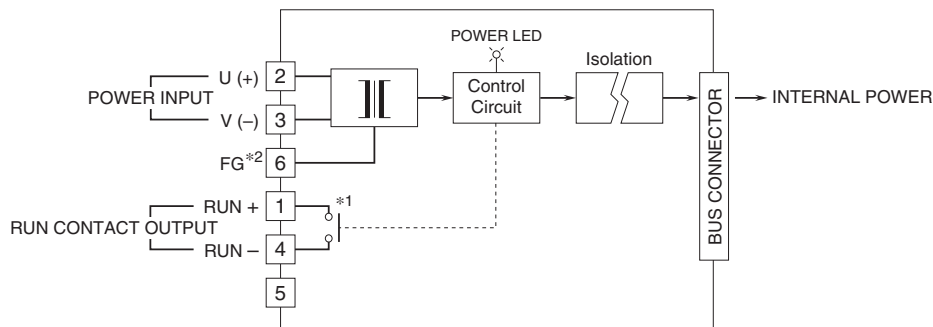
**EXTERNAL VIEW**



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



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



\*1. RUN contact is available with Ver.1.01 or higher versions.

\*2. In order to improve EMC performance, bond the FG terminal to a ground.  
This terminal is NOT a protective conductor terminal.





Specifications are subject to change without notice.



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