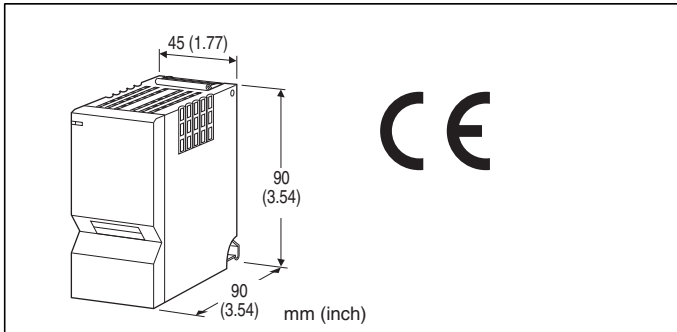


Remote I/O R5 Series

POWER SUPPLY MODULE



MODEL: R5-PS[1][2]

ORDERING INFORMATION

- Code number: R5-PS[1][2]
- Specify a code from below for each of [1] and [2].
(e.g. R5-PSR/Q)
- Specify the specification for option code /Q
(e.g. /C01/S01)

[1] POWER INPUT

AC Power

- K: 100 - 120 V AC
(Operational voltage range 85 - 132 V, 47 - 66 Hz)
- L: 200 - 240 V AC
(Operational voltage range 170 - 264 V, 47 - 66 Hz)

DC Power

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

[2] OPTIONS

- blank: none
- /Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

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

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

TERMINAL SCREW MATERIAL

- /S01: Stainless steel

NOTICE

- RUN CONTACT OUTPUT
 - Function of RUN contact output
During a Network Module communicates normally with a

master device (PLD or PC etc.), RUN contact output of Power Supply Module turns ON.

- When using with dual redundant communication or two system.

During both Network Module or one of them communicates normally with a master device (PLD or PC etc.), RUN contact output of Power Supply Module turns ON.

- When using R5-PS with redundant or two system.

RUN contact output works in same function for both cases. However, when I/O capacity code of installation base is "05:5 slots (single communication mode)" or "09: 9 slots (single communication mode)", the RUN contact output of Power Supply Module installed in a Extender Power Module Base (model: R5-EX1) is not available.

GENERAL SPECIFICATIONS

Connection

- **Power input or RUN contact output:** M3.5 screw terminals (torque 0.8 N·m)
- **Internal bus or internal power:** Via the Installation Base (model: R5-BS)

Screw terminal: Nickel-plated steel (standard) or stainless steel

Isolation: Internal bus or internal power to power supply to RUN contact output to FG

Power LED: Bi-color (red/amber) LED;

Red when the power is supplied; Amber at RUN contact output ON.

■ RUN CONTACT OUTPUT

Contact turns ON (closed) while data from the host is normally received; OFF (open) with loss of communication for approx. 3 seconds.

Rated load: 250 V AC @ 0.5 A (cos ϕ = 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: 2×10^7 cycles (rate 300 cycles/min.) When driving an inductive load, external contact protection and noise quenching recommended.

INSTALLATION

Power consumption

- **AC:** Approx. 90 VA
- **DC:** Approx. 45 W or 1.8 A

Output current: 1.5 A continuous at 21 V DC;
(Total current continuously consumed at the network modules and I/O modules must be within 1.5 A.)

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: R5-BS) or Extender
Power Supply Module Base (R5-EX1)
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 bus or
internal power to power input to RUN output 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)

Installation Category II (power input)

Pollution Degree 2

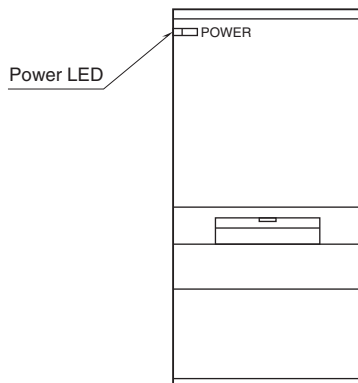
Internal power or RUN contact output to power input to FG:

Reinforced insulation (300 V)

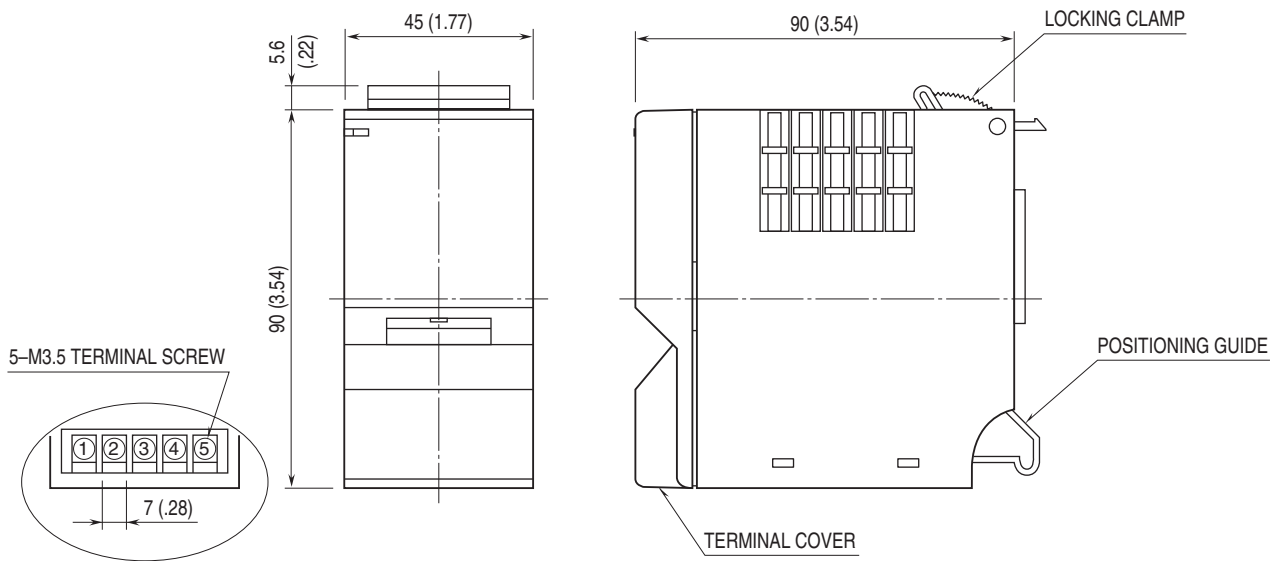
Internal power to RUN contact output: Basic insulation
(300 V)

RoHS Directive

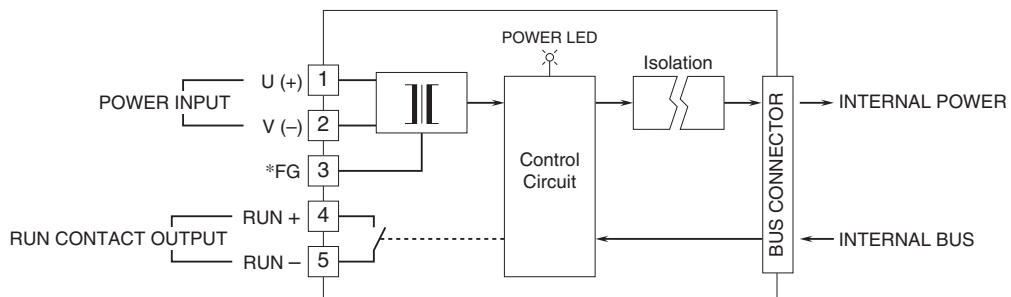
EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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



Specifications are subject to change without notice.