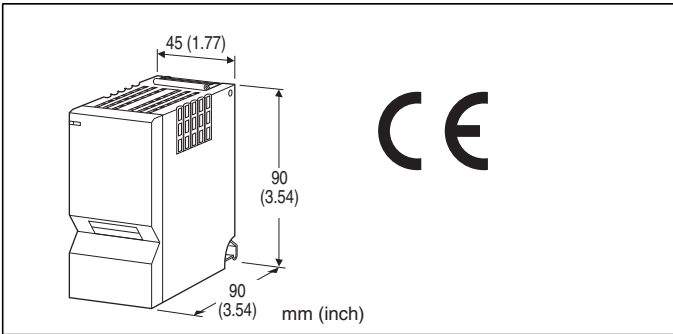


## Remote I/O R5 Series

### 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 our 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  $\phi$  = 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 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

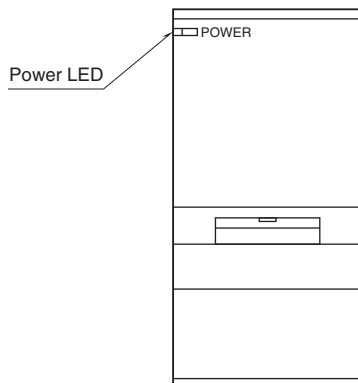
Internal power or RUN contact output to power input to FG:

Reinforced insulation (300 V)

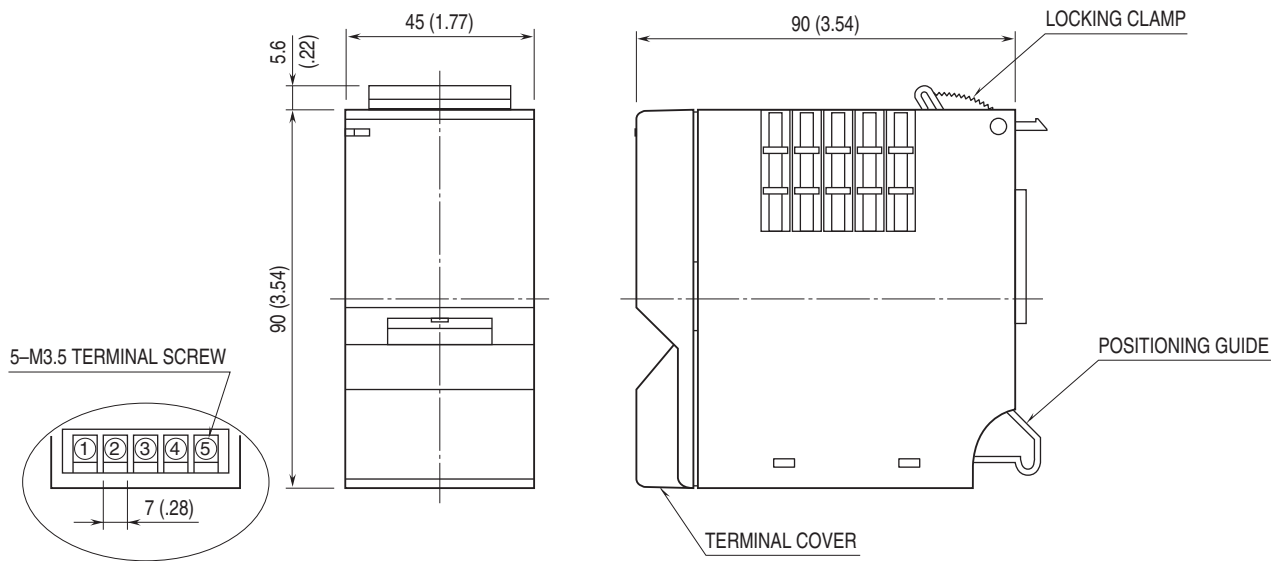
Internal power to RUN contact output: Basic insulation  
(300 V)

RoHS Directive

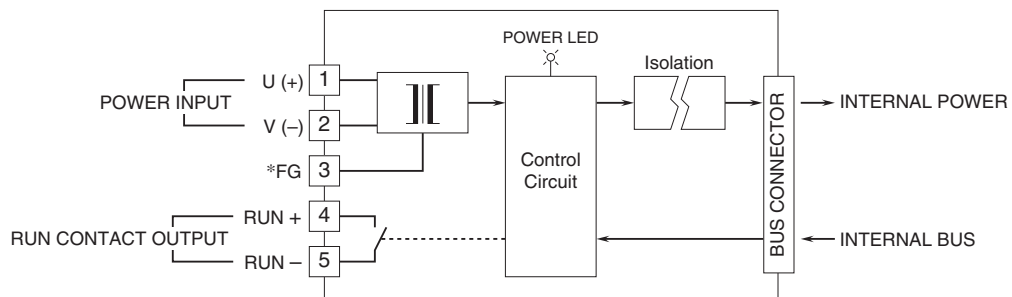
## EXTERNAL VIEW



## 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.