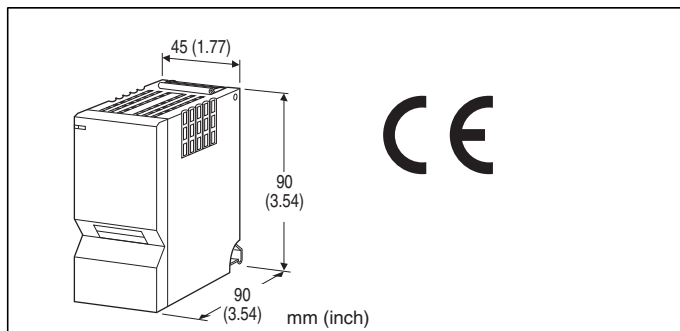


## Remote I/O R5 Series

### POWER SUPPLY MODULE



### MODEL: R5-PS[1][2]

#### ORDERING INFORMATION

- Code number: R5-PS[1][2]  
Specify a code from below for each [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

#### GENERAL SPECIFICATIONS

##### Connection

- Power input, RUN contact output: M3.5 screw terminals  
(torque 0.8 N·m)

• Internal power: Via the Installation Base (model: R5-BSx)

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

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

Power indicator: 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.

#### ■ RUN CONTACT OUTPUT

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-BSx) 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 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

EMS EN 61000-6-2: 2005

Low Voltage Directive (2006/95/EC)

EN 61010-1: 2001

Measurement Category II (RUN contact output)

Installation Category II (power input)

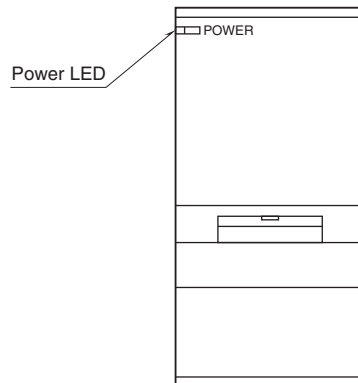
Pollution Degree 2

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

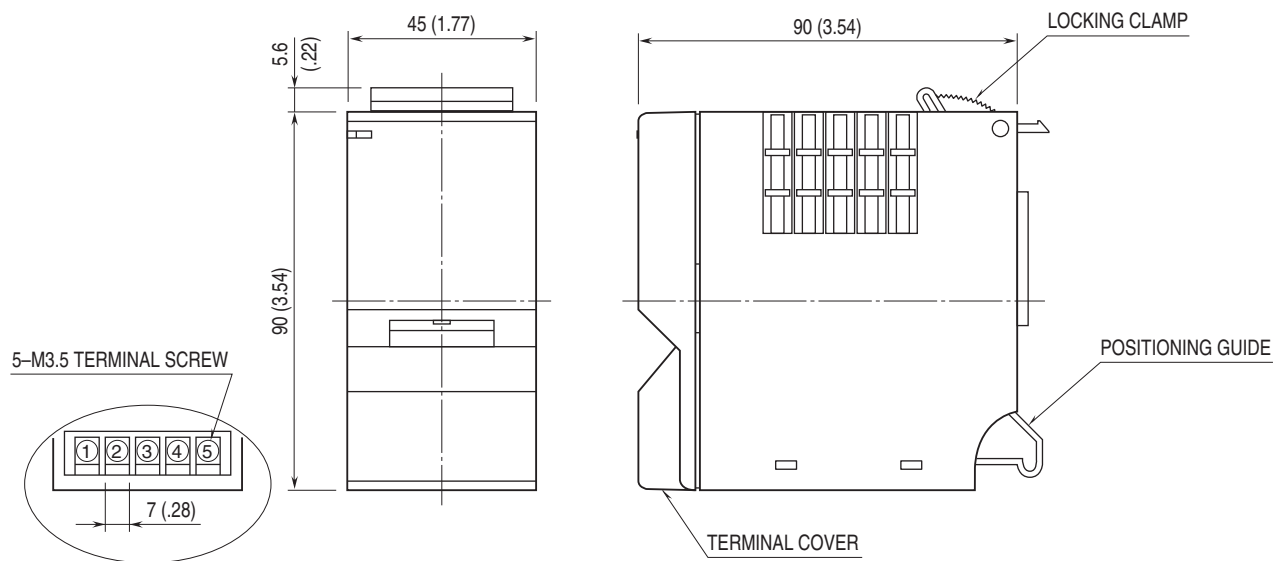
Reinforced insulation (300 V)

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

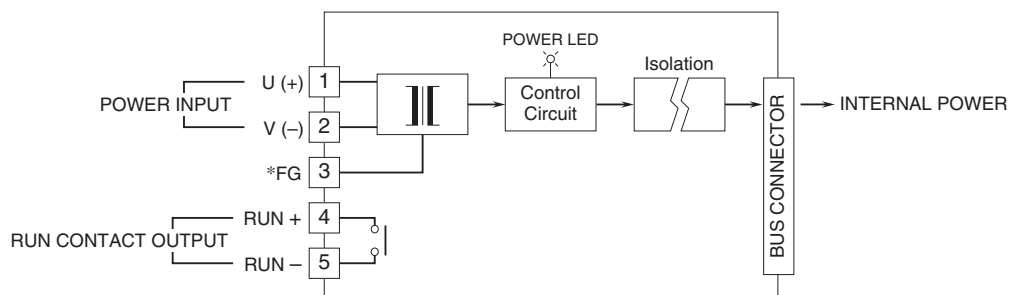
## EXTERNAL VIEW



## 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.