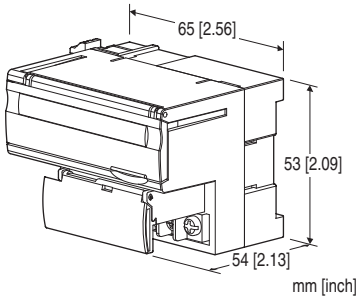
Remote I/O R7 Series

MULTI POWER MONITORING MODULE

(Di / Pi for extension, 8 points (internal power 5 V), Modbus use)

Functions & Features

• Extension unit for Multi Power Monitoring Module (model: R7MWTU)



MODEL: R7MWTU-EA8[1]

ORDERING INFORMATION

• Code number: R7MWTU-EA8[1]

Specify a code from below for [1].
(e.g. R7MWTU-EA8/Q)

• Specify the specification for option code /Q
(e.g. /C01)

I/O TYPE

EA8: Di / Pi for extension, 8 points (internal power 5 V)

[1] OPTIONS

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

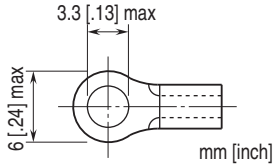
SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating

GENERAL SPECIFICATIONS

Connection: M3 separable screw terminal (torque 0.5 N·m)
Solderless terminal: Refer to the drawing at the end of the section.
Recommended manufacturer: Japan Solderless Terminal MFG. Co., Ltd., Nichifu Co., Ltd.
Applicable wire size: 0.25 to 1.65 mm^2 (AWG 22 to 16)
Screw terminal: Nickel-plated steel
Housing material: Flame-resistant resin (black)
Isolation: Sensor core to sensor output or current input or voltage input to discrete input to Modbus or FG to power

■Recommended solderless terminal size - M3



INPUT SPECIFICATIONS

■ Discrete input
Common: Negative common
Maximum frequency: 10 Hz
Minimum pulse width: 50 msec.
Totalized pulse range: 0 - 999 999 999
Count at overflow: Reset and restart at '1.'
Detecting voltage/current: 5 V DC / 5 mA approx.
Detecting levels: ≤ 5 kΩ / ≤ 2 V for ON;
≥ 100 kΩ / 4 V for OFF
Operation mode: Discrete and pulse counter

INSTALLATION

Power consumption
•**AC:** < 1 VA
•**DC**: < 0.5 W
Operating temperature: -10 to +55°C (14 to 131°F)
Storage temperature: -20 to +65°C (-4 to +149°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Atmosphere: No corrosive gas or heavy dust
Mounting: DIN rail
Weight: 90 g (0.2 lb)

PERFORMANCE

Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength:
2000 V AC @ 1 minute (current input or voltage input or discrete input to Modbus or FG to input power)
1000 V AC @ 1 minute (current input or voltage input to discrete input)

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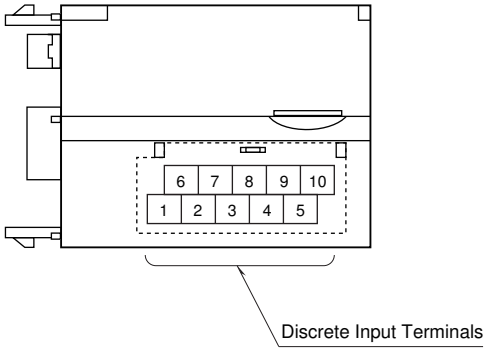
EXTERNAL VIEW



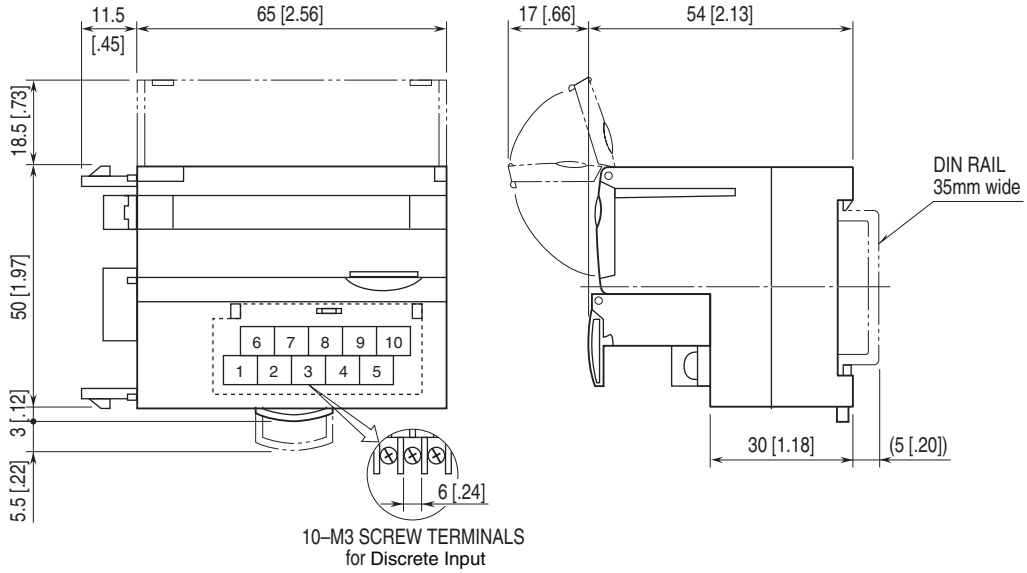
TERMINAL ASSIGNMENTS

■ INPUT TERMINAL ASSIGNMENT

6 COM	7 DI1+	8 DI3+	9 DI5+	10 DI7+
1 COM	2 DI2+	3 DI4+	4 DI6+	5 DI8+

NO.	ID	FUNCTION	NO.	ID	FUNCTION
1	COM	Common	6	COM	Common
2	DI2+	Discrete input 2	7	DI1+	Discrete input 1
3	DI4+	Discrete input 4	8	DI3+	Discrete input 3
4	DI6+	Discrete input 6	9	DI5+	Discrete input 5
5	DI8+	Discrete input 8	10	DI7+	Discrete input 7

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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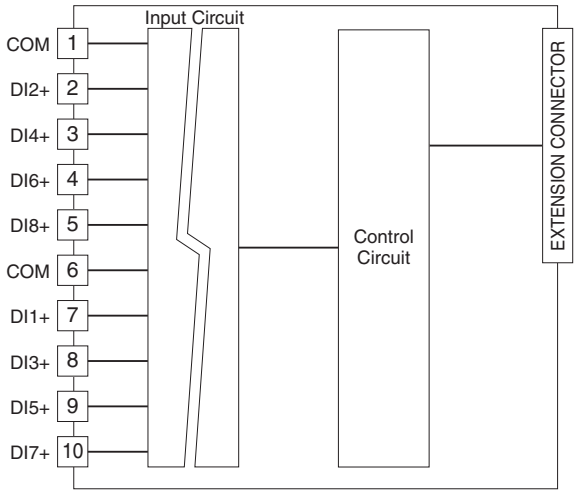
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

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