MODEL: R30NOUA1

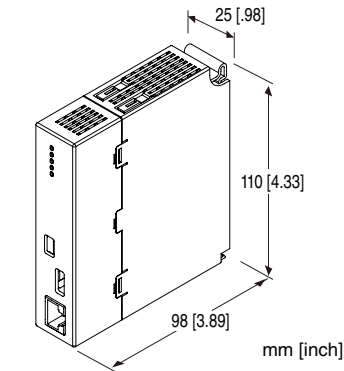## Remote I/O R30 Series

NETWORK MODULE
(OPC UA)

Functions & Features
• Interchanges analog or discrete I/O signals with the OPC UA network.

25 [.98]
110 [4.33]
98 [3.89]
mm [inch]

MODEL: R30NOUA1[1]

ORDERING INFORMATION
• Code number: R30NOUA1[1]
Specify a code from below for [1].
  (e.g. R30NOUA1/Q)
• Specify the specification for option code /Q
  (e.g. /C01)

[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

NOTICE
R30NOUA1 cannot be used in combination with R3 series I/O modules for extension.

RELATED PRODUCTS
• PC configurator software (model: R30CFG)
Downloadable at our web site.
For connecting to PC, use commercially available Mini-B type USB cable. (provided by user)

GENERAL SPECIFICATIONS
Connection
  OPC UA: RJ-45 connector
  Internal bus: Via the Installation Base (model: R30BS)
  Internal power: Via the Installation Base (model: R30BS)
Housing material: Flame-resistant resin (gray)
Isolation: OPC UA to internal bus or internal power
Calendar clock: Year (4 digits), month, date, day, hour, minute, second
Internal bus communication cycle: Approx. 1 msec.
Indicator LED: RUN, D LINK, ERR
(Refer to the instruction manual for details.)

OPC UA COMMUNICATION
Connection: Ethernet IPv4
Baud rate: 10/100 Mbps
Transmission media: 10BASE-T (STP, Category 5), 100BASE-TX (STP, Category 5e)
Max. length of fieldbus segment: 100 meters
Status indicator LEDs: DPX, LNK
IP address: 192.168.0.1 (factory setting)
Server/Client: OPC UA server (client function not supported)
Encode: UA Binary (UA XML not supported)
Protocol: UA TCP (SOAP/HTTP not supported)
TCP port No.: 4840 (fixed)
Max. number of clients: 4
Encryption: None
Signature: None
Server authentication: None (X059 Certificates not supported)
User authentication: Anonymous (no authentication); Username (authentication by user name and password)
Server type: DA server (Data access)

INSTALLATION
Current consumption: 115 mA
Operating temperature: 0 to 50°C (32 to 122°F)
Storage temperature: -10 to +60°C (14 to 140°F)
Operating humidity: 10 to 90 %RH (non-condensing)
Atmosphere: No corrosive gas or heavy dust
Mounting: Installation Base (model: R30BS)
Weight: 160 g (0.35 lb)

PERFORMANCE
Calendar clock: (with battery backup)
  Accuracy: Monthly deviation 2 minutes at 25°C
  Back up period: Approx. 2 years at 25°C
  Battery: Primary lithium battery (non-removable)
  (In order to prevent battery drain, battery back up is OFF at factory default. Turn it ON prior to start using.)
Insulation resistance: ≥ 100 MΩ with 500 V DC

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Dielectric strength: 1500 V AC @ 1 minute
(OPC UA to internal bus or internal power)
1500 V AC @ 1 minute (power input to FE; isolated on the
power supply module)

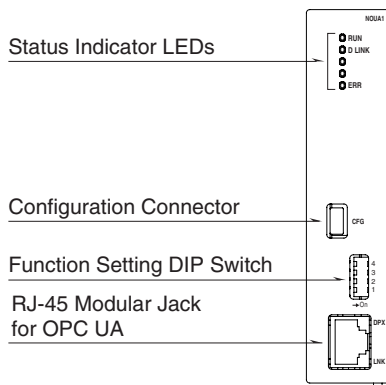## STANDARDS & APPROVALS

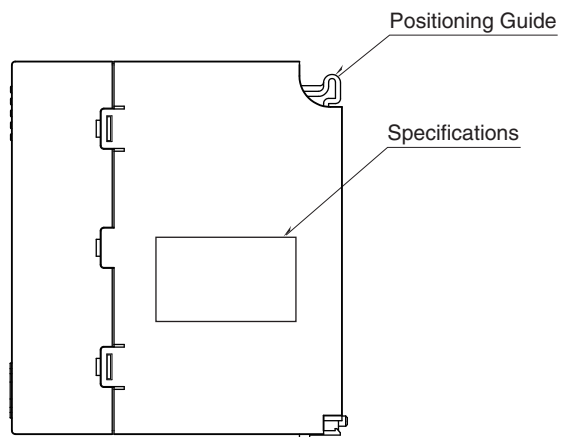**EU conformity**:
EMC Directive
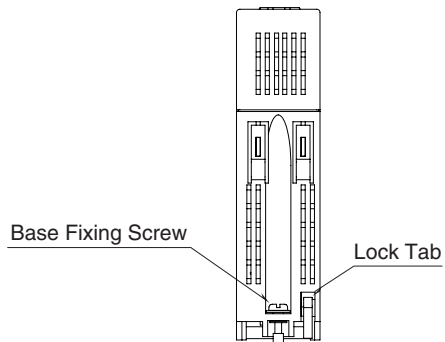 EMI EN 61000-6-4
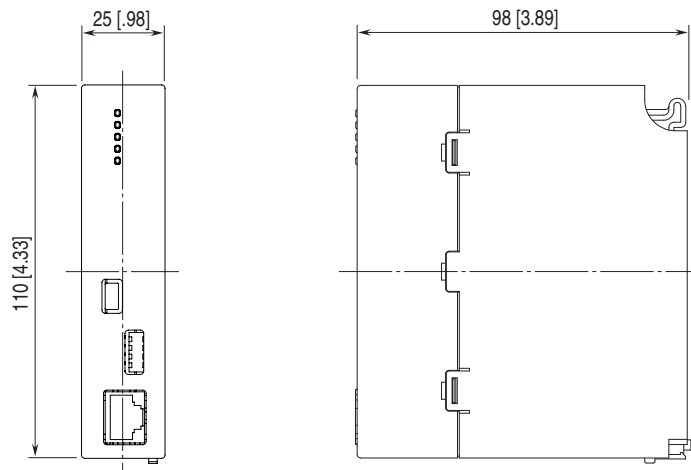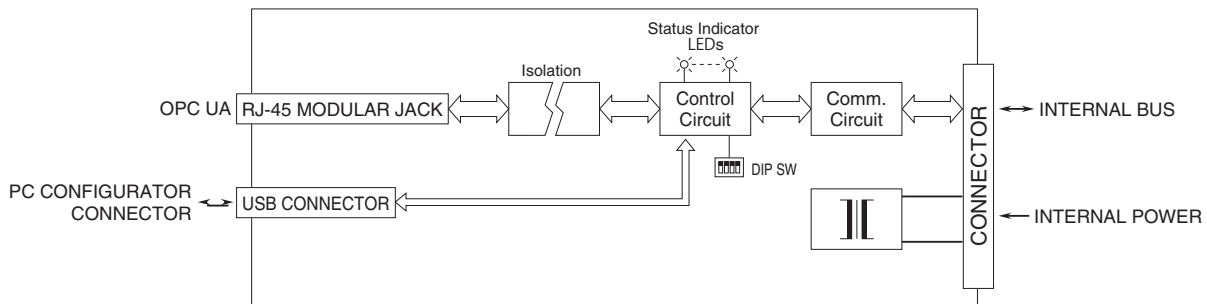 EMS EN 61000-6-2
RoHS Directive

EXTERNAL VIEW

■ **FRONT VIEW**

Status Indicator LEDs

NOUA1
RUN
D LINK
ERR

Configuration Connector — CFG

Function Setting DIP Switch

RJ-45 Modular Jack
for OPC UA

■ **SIDE VIEW**

Positioning Guide

Specifications

■ **BOTTOM VIEW**

Base Fixing Screw

Lock Tab

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EXTERNAL DIMENSIONS   unit: mm [inch]

25 [.98]   98 [3.89]

110 [4.33]

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

Status Indicator LEDs

OPC UA — RJ-45 MODULAR JACK ⟷ Isolation ⟷ Control Circuit ⟷ Comm. Circuit ⟷ CONNECTOR ⟷ INTERNAL BUS

DIP SW

PC CONFIGURATOR CONNECTOR ⟷ USB CONNECTOR

CONNECTOR ⟷ INTERNAL POWER

⚠ Specifications are subject to change without notice.

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