

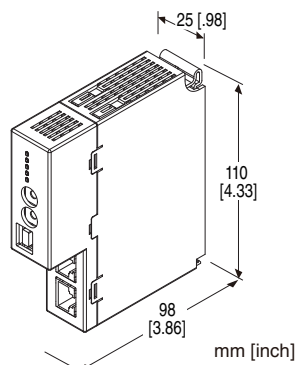
Remote I/O R30 Series

NETWORK MODULE

(EtherNet/IP)

Functions & Features

- Interchanges analog or discrete I/O signals with the fieldbus (EtherNet/IP)
- Combined with R3 Series I/O modules



MODEL: R30NEIP1[1]

ORDERING INFORMATION

- Code number: R30NEIP1[1]
Specify a code from below for [1].
(e.g. R30NEIP1/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

CAUTION

- The internal bus communication period for R3 series I/O modules installed on the R30EBS is as follows.
Internal bus communication period = 6 msec. × number of I/O module + 10 msec. (Data update period of main CPU)
Example: Four R3 I/O modules
6 msec. × 4 + 10 msec. = 34 msec.
Even when the R30EBS is mounted to the R30BS, the

internal bus communication period of R30 series is kept to approx. 1 msec.

RELATED PRODUCTS

- PC configurator software (model: R30CFG)
- PC configurator software (model: R3CON)
- EDS file

The EDS file and configurator software are downloadable at our web site.

For connecting to PC, use commercially available Mini-B type USB cable. (provided by user)

- R3 series I/O modules (except R3-TC2)

GENERAL SPECIFICATIONS

Connection

EtherNet/IP: RJ-45 modular jack

Internal bus: Via the Installation Base (model: R30BS)

Internal power: Via the Installation Base (model: R30BS)

Isolation: EtherNet/IP to internal bus or internal power

Internal bus communication cycle: Approx. 1 msec.

Status indicator LED: PWR

EtherNet/IP COMMUNICATION

Conformance test version: CT21

Communication standard: IEEE 802.3u

Transmission: 10BASE-T, 100BASE-TX

Baud rate: 10/100 Mbps (Auto Negotiation function)

Max. number of socket connections: 3

Connection type: Exclusive owner, Listen only, Input only

Protocol: EtherNet/IP

Transmission media: 10BASE-T (STP, Category 5)

100BASE-TX (STP, Category 5e)

Max. length of fieldbus segment: 100 meters

IP address: 192.168.0.250 (factory setting); Selectable with PC Configurator Software (model: R30CFG)

Default gateway: 192.168.0.1 (factory setting); Selectable with PC Configurator Software (model: R30CFG)

DLR supported

Port No.: 2222, 44818

I/O data area size: Input and output data area size set with PC Configurator Software (model: R30CFG)

Required data words:

Input: 38, 70, 134, 252 words

Output: 38, 70, 134, 252 words (6 words are used only for status)

Ethernet indicator LED: LINK1, LINK2

MS (Module Status) indicator: Bi-color (green/red) LED indicates device status.

NS (Network Status) indicator: Bi-color (green/red) LED indicates status of the communication link.

INSTALLATION

Current consumption: 110 mA

Operating temperature: -10 to +55°C (14 to 131°F)

Storage temperature: -20 to +65°C (-4 to +149°F)

Operating humidity: 10 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust

Mounting: Installation Base (model: R30BS)

Weight: 110 g (0.24 lb)

PERFORMANCE

Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute

(EtherNet/IP 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

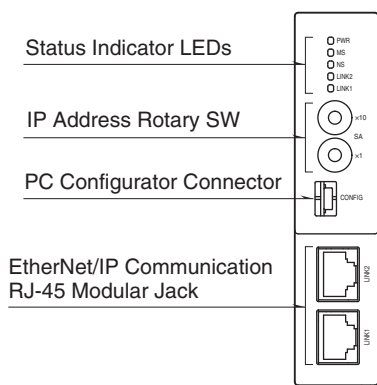
EMI EN 61000-6-4

EMS EN 61000-6-2

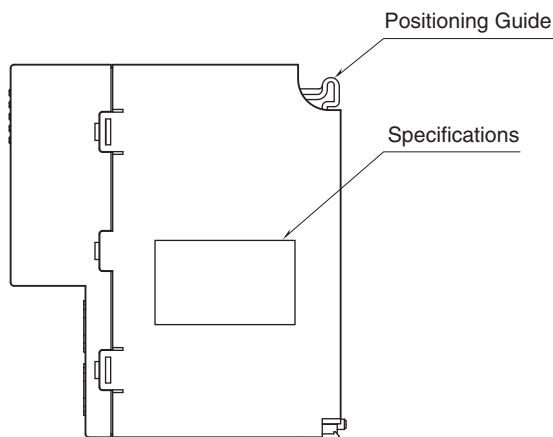
RoHS Directive

EXTERNAL VIEW

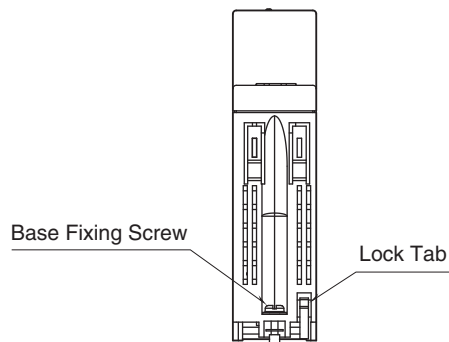
■ FRONT VIEW



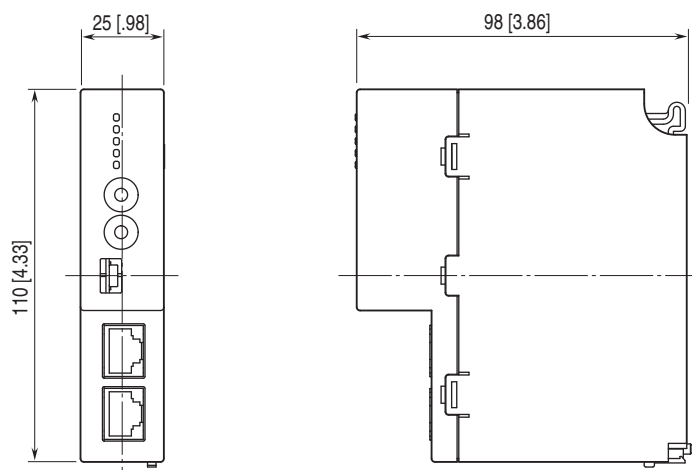
■ SIDE VIEW



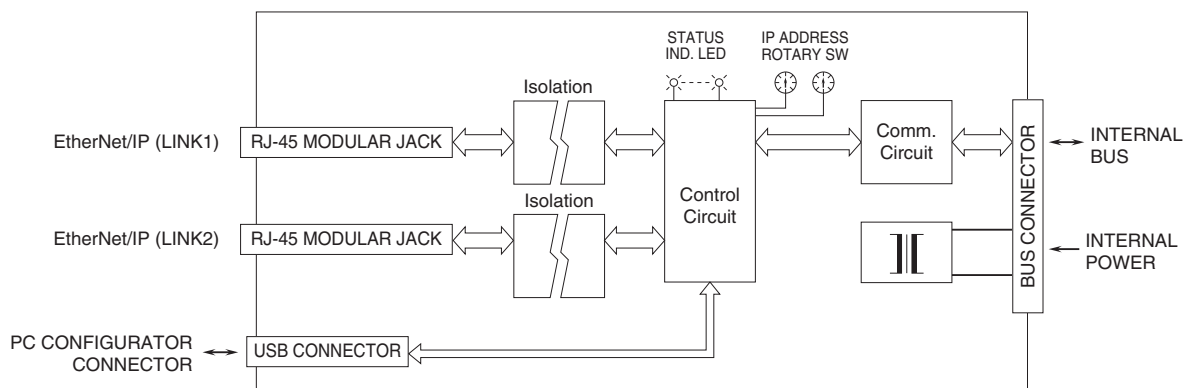
■ BOTTOM VIEW



EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.