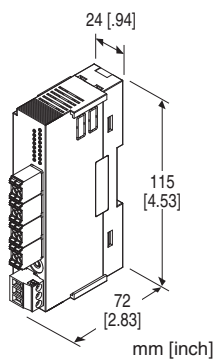


SPE Remote I/O BA8 Series

SPE REPEATER

Functions & Features

- Equipped with SPE (10BASE-T1L) port
- Dedicated repeater for SPE Remote I/O products of MG Co., Ltd.



MODEL: BA8NS-HUB-[1][2]

ORDERING INFORMATION

- Code number: BA8NS-HUB-[1][2]

Specify a code from below for each of [1] and [2].

(e.g. BA8NS-HUB-R/CE/1)

[1] POWER INPUT

AC Power

M2: 100 – 240 V AC

(Operational voltage range 85 – 264 V, 47 – 66 Hz)

('CE' is not selectable for 'Standards & Approvals' code)

DC Power

R: 24 V DC

(Operational voltage range 24 V $\pm$ 10 %, ripple 10 %p-p max.)

[2] OPTIONS (multiple selections)

Standards & Approvals

blank: Without CE

/CE: CE marking

Program Version (must be specified)

/1

RELATED PRODUCTS

- SPE Converter (model: BA8NS-CONV)

GENERAL SPECIFICATIONS

Construction: Stand-alone

Connection:

• Power

Unit side connector: MSTB2,5/3-G (Phoenix Contact)

Cable side connector: MSTB2,5/3-ST (Phoenix Contact)

Applicable wire size: 0.2 – 2.5mm², stripped length 7mm

• 10BASE-T1L

Unit side connector: in-house made

Applicable connector: DFMC1,5/2-ST-3,5 (Phoenix Contact)
(included in the package)

Applicable wire size: 0.2 – 1.5mm², stripped length 10mm

Isolation: SPE to power to FE

COMMUNICATION

Number of port: 4

■ 10BASE-T1L

Communication standard: IEEE 802.3cg

Transmission speed: 10 Mbps

Transmission media: CAT5 2-wire twisted-pair

Maximum segment length: 1000 meters (standard value)

INSTALLATION

Power consumption

• AC:

Approx. 2.2 VA at 100 V

Approx. 2.7 VA at 200 V

Approx. 3.3 VA at 264 V

• DC: Approx. 1 W

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

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

Ambience: No corrosive gas or heavy dust; no strong electric/magnetic field; no direct effect of vibration or physical impact

Mounting: DIN rail

Weight: 110 g (0.24 lb)

PERFORMANCE

Insulation resistance: $\geq$ 100 M Ω with 500 V DC

Dielectric strength: 1500 V AC @1 minute

(SPE to power to FE)

REFERENCE DATA

The data shown below are of individual test pieces and do not guarantee all values.

• 10BASE-T1L transmission distance test

Used cable 1

Category 6 twisted pair cable from ELECOM

LD-CT6

Transmission distance: 970 m

Communication establishment time: Approx. 7 sec.

Used cable 2

Electric button telephone cable from TSUKO DKT-Q0.5-2P

Transmission distance: 600 m

Communication establishment time: Approx. 0.5 sec.

STANDARDS & APPROVALS

EU conformity:

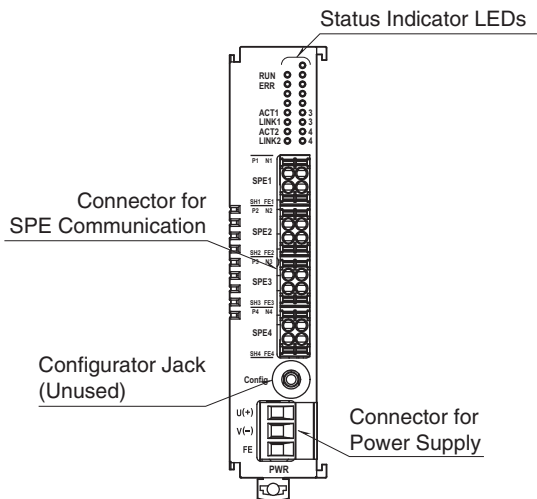
EMC Directive

EN 63044-5-1, EN 63044-5-3

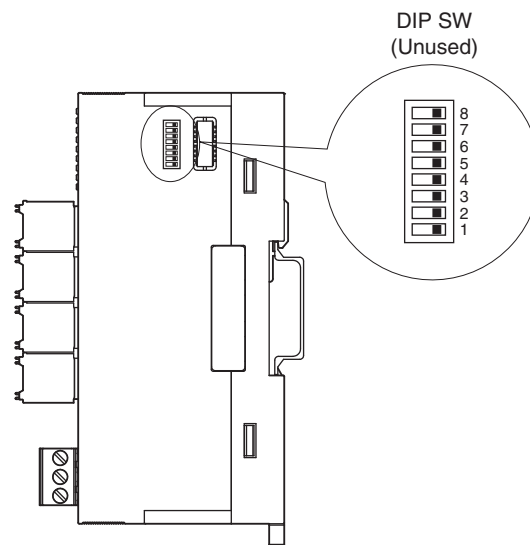
RoHS Directive

EXTERNAL VIEW

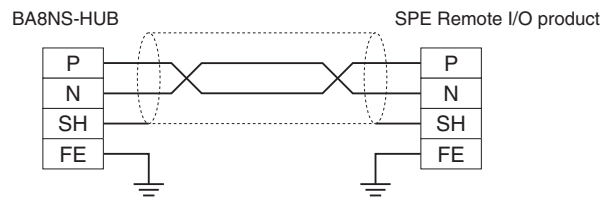
■ FRONT VIEW



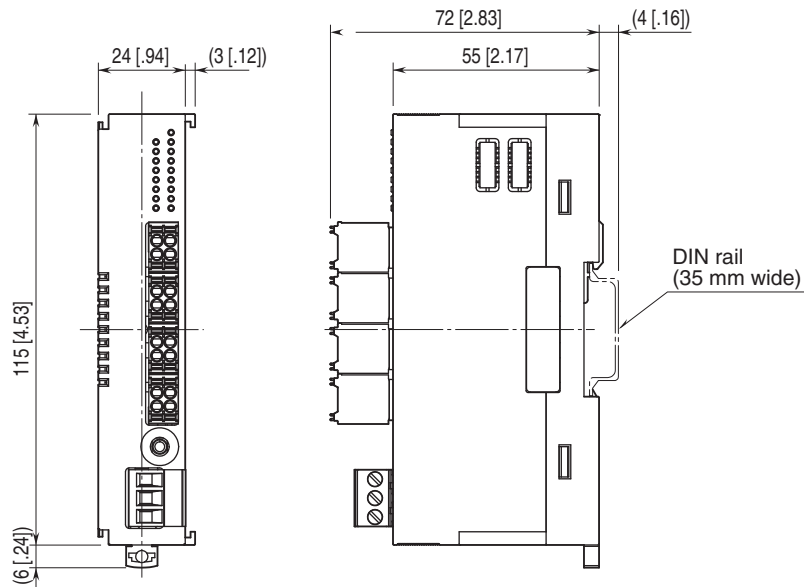
■ SIDE VIEW



COMMUNICATION CABLE WIRING



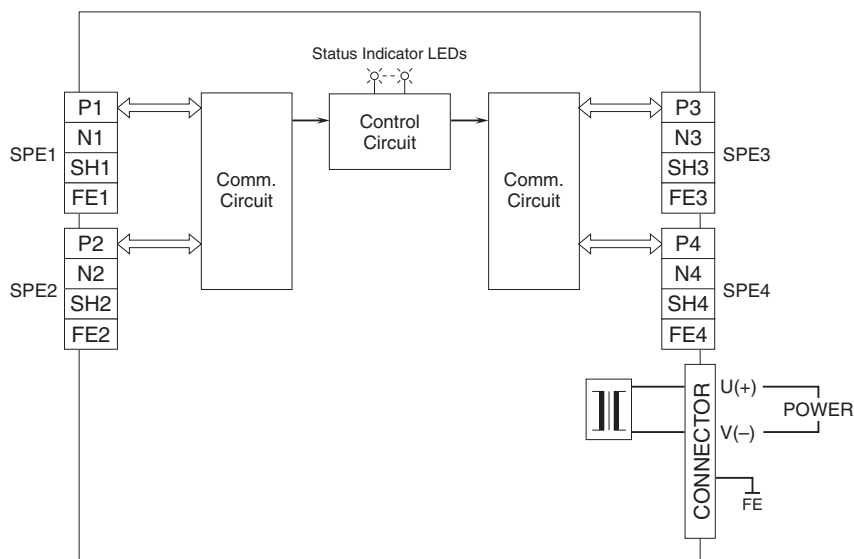
EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

Note: In order to improve EMC performance, bond the FE terminal to ground.

Caution: FE terminal is NOT a protective conductor terminal.



Specifications are subject to change without notice.