SPE CONVERTER

MODEL BASNS-CONV

BEFORE USE

Thank you for choosing us. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact our sales office or representatives.

■ PACKAGE INCLUDES:

SPE Converter.....(1)

■ MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

- The equipment must be mounted inside the instrument panel of a metal enclosure.
- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures* to ensure the CE conformity.
 - * For example, installation of noise filters and clamp filters for the power source, input and output connected to the unit, etc.

■ POWER INPUT RATING & OPERATIONAL RANGE

 Locate the power input rating marked on the product and confirm its operational range as indicated below:

100 - 240V AC rating: 85 - 264V AC, 47 - 66 Hz

100V AC: approx. 1.8VA 200V AC: approx. 2.3VA 264V AC: approx. 3VA

24V DC rating: 24V DC±10%, approx. 0.8W

■ GENERAL PRECAUTIONS

 Before you remove the unit or mount it, turn off the power supply for safety.

■ ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
- Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 10 to 90% RH in order to ensure adequate life span and operation.

■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

■ AND

The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

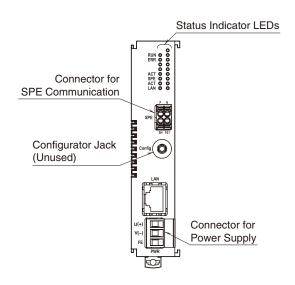
LIGHTNING SURGE PROTECTION

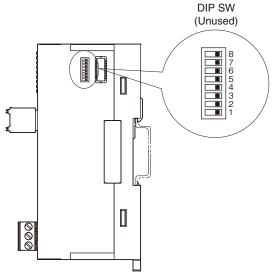
We offer a series of lightning surge protector for protection against induced lightning surges. Please contact us to choose appropriate models.

COMPONENT IDENTIFICATION

■ FRONT VIEW

■ SIDE VIEW





■ STATUS INDICATOR LED

ID	FUNCTION		STATUS		
RUN	Operation in progress	ON	Operation in progress		
		OFF	In stopped state		
ERR	Abnormality	ON	Hardware abnormality		
		OFF	Normal		
_	-	_	Unused		
_	-	_	Unused		
ACT	SPE communication in progress	ON	SPE communication in progress		
		OFF	No SPE communication		
SPE	SPE connection in place	ON	SPE link in place		
		OFF	SPE in unconnected state		
ACT	LAN communication in progress	ON	LAN communication in progress		
		OFF	No LAN communication		
LAN	LAN connection in place	ON	LAN link in place		
		OFF	LAN in unconnected state		

■ SPE

Unit side connector: in-house made Cable side connector: DFMC1,5/2-ST-3,5 (Phoenix Contact)



ID	FUNCTION			
Р	Positive			
N	Negative			
SH	Shield			
FE1	FE			

■ POWER SUPPLY

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



PIN No.	ID	FUNCTION
1	U (+)	Power supply
2	V (-)	Power supply
3	FE	Functional earth

WIRING INSTRUCTIONS

■ EURO TYPE CONNECTOR TERMINAL (power supply)

Applicable connector: MSTB2,5/3-ST (Phoenix Contact) supplied with this product

Applicable wire: $0.2 - 2.5 \ mm^2$

Stripped length: 7 mm Recommended terminal:

AIO, 25-6BU
 AIO, 34-6TQ
 AIO, 5-6WH
 AIO, 75-6GY
 AII-6RD
 AII, 5-6BK
 O.25 mm² (Phoenix Contact)
 O.5 mm² (Phoenix Contact)
 O.75 mm² (Phoenix Contact)
 1.0 mm² (Phoenix Contact)
 1.5 mm² (Phoenix Contact)

■ TENSION CLAMP TERMINAL BLOCK (SPE)

 $\textbf{Applicable connector} : DFMC \ 1,5/2-ST-3,5 \ (Phoenix \ Contact) \ supplied \ with \ this \ product$

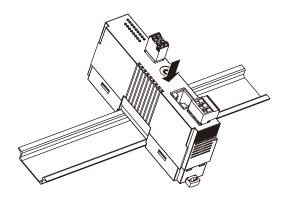
 $\begin{tabular}{ll} \textbf{Applicable wire:} & 0.2-1.5 & mm^2 \\ \textbf{Stripped length:} & 10 & mm \\ \textbf{Recommended terminal} \\ \end{tabular}$

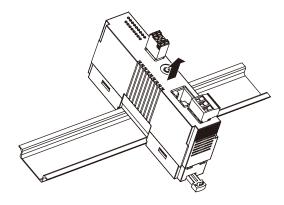
AIO, 25-10YE 0.25 mm² (Phoenix Contact)
 AIO, 34-10TQ 0.34 mm² (Phoenix Contact)
 AIO, 5-10WH 0.5 mm² (Phoenix Contact)
 AIO, 75-10GY 0.75 mm² (Phoenix Contact)

INSTALLATION

■INSTALLATION

- Hang the upper hook at the rear side of unit on the DIN rail, then push in the lower in keeping pressing the unit to the DIN rail
- Push down the DIN rail adaptor using a minus screwdriver, pull out the lower part of the unit, then remove the upper part from the DIN rail.



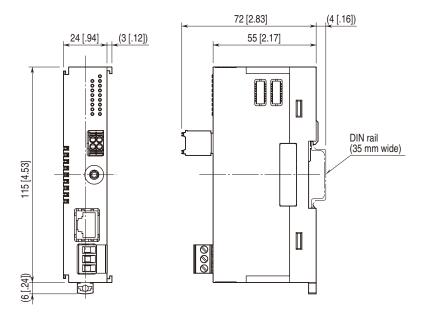


Use an end bracket to secure the connection on a DIN rail.

TERMINAL CONNECTIONS

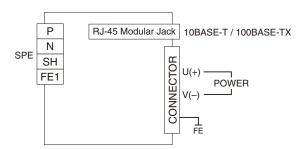
Connect the unit as in the diagram below.

■ EXTERNAL DIMENSIONS unit: mm [inch]

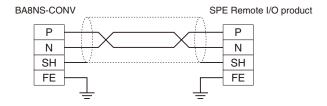


■ CONNECTION DIAGRAM

Note: In order to improve EMC performance, bond the FE terminal to ground. Caution: FE terminal is NOT a protective conductor terminal.



COMMUNICATION CABLE CONNECTIONS



COMMUNICATION SPECIFICATIONS

■ Ethernet

 $\label{lem:communications} \begin{array}{l} \textbf{Communications standard: IEEE } 802.3u \\ \textbf{Transmission: } 10BASE\text{-}T, 100BASE\text{-}TX \\ \end{array}$

Baud rate: 10, 100 Mbps (with Auto Negotiation function)

Transmission cable: 10BASE-T (STP cable category 5), 100BASE-TX (STP cable category 5e)

Maximum segment length: 100 meters

■10BASE-T1L

Communications standard: IEEE 802.3cg

Baud rate: 10 Mbps

Transmission cable: CAT5 two-wire twisted pair cable Maximum segment length: 1000 meters (standard value)

SYSTEM CONFIGURATION EXAMPLES

Devices other than the BASNS-CONV in below provided by the user.

