

INSTALLATION MANUAL

DOOR STATION BOARD N-8050SB

1. GENERAL DESCRIPTION

The N-8050SB is a printed circuit board unit for the N-8050DS Door Station. You can make the door station suitable for applications using the N-8050SB in combination with the operation panel section to be prepared separately.

Use the N-8000 software * to perform settings. Set up the same items as performed to the N-8050DS since the N-8050SB is handled as the N-8050DS on the software.

The call button and status indicator operations are exactly the same as those of the N-8050DS.

For settings, functions, and operations, read the descriptions about the N-8050DS in the N-8000 Series instruction manual.

* Included in the CD supplied with the N-8000EX/8010EX Exchange.

2. SPECIFICATIONS

Power Source	48 V DC (supplied from the N-8000EX/8010EX IP Intercom Exchange)
Power Consumption	1.8 W (rated), 2.4 W (max.)
Wiring Method	Non-polar one pair stranded wire system
Transmission System	2-wire 160 kbps echo canceller transmission system
Signal Level	Under 0 dB*
Speech Method	Hands-free conversation
Audio Frequency Range	300 – 7,000 Hz
Transmission Range	Max. 1,500 m (\emptyset 0.65 mm, Loop resistance 170 Ω or less)
Hands-Free	$\begin{array}{ll} \text{Speaker (accessory):} & 3.5 \text{ cm cone-type, 1 W, 8 } \Omega \\ \text{Microphone (accessory):} \text{Omni-directional electret} \\ & \text{condenser microphone} \end{array}$
Contact Output	Open collector output, withstand voltage: Max. 30 V DC, control current: Max. 50 mA, one shot: can be set from 1 to 9 sec, screw terminal (polarized)
Line Connection Terminal	2 wire, screw terminal (non-polar)
Status Indicator LED Connecting Terminal	Solderless connector (5 pins, male), voltage: 5 V, maximum load current: 4.1 mA
Call Switch Connecting Terminal	Solderless connector (5 pins, male), open voltage: 3.3 V DC, short-circuit current: 1.5 mA
Operating Temperature	−10°C to +50°C
Operating Humidity	Under 90% RH (no condensation)
Dimensions	67 (w) x 128.3 (h) x 26 (d) mm
Weight	100 g (including accessories)

* 0 dB = 1 V

Note: The design and specifications are subject to change without notice for improvement.

Accessories

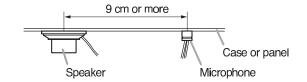
3. MOUNTING TO A METAL CASE OR PANEL

3.1. Installation Precautions

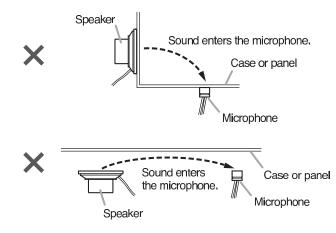
- To prevent a malfunction or breakdown due to static electricity, be sure to use a metal case or metal panel.
- · Cover the whole board with a case when installing.

3.2. Speaker and Microphone Installation

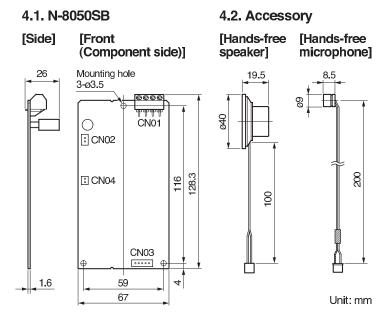
• To prevent acoustic feedback, attach the speaker and microphone closely to the panel and position them at least 9 cm away from each other's center as shown below.



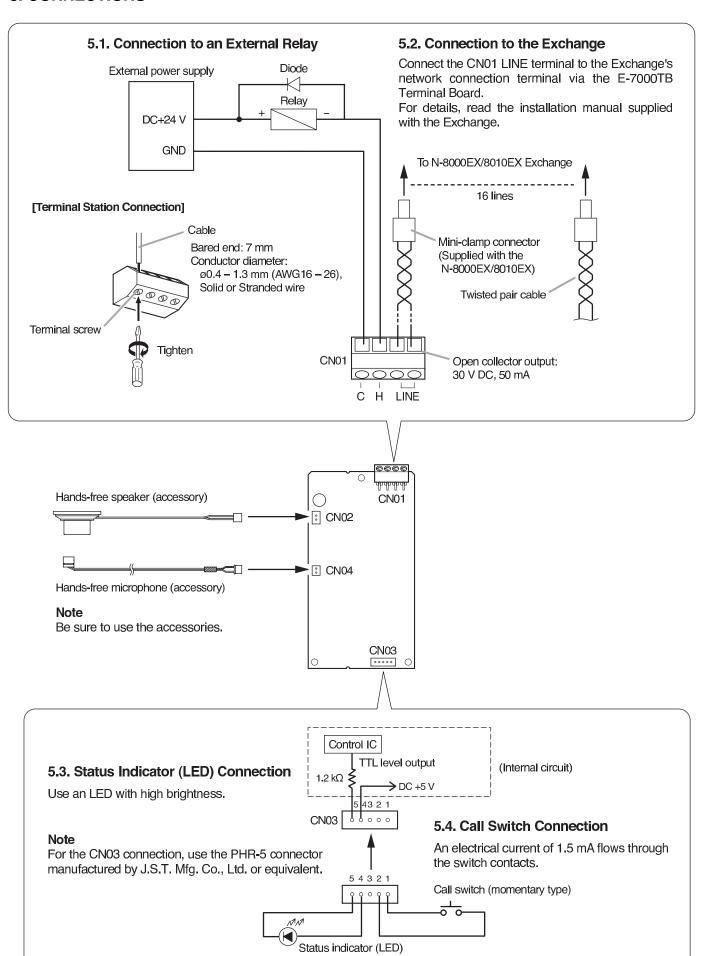
- Speaker opening ratio should be 15% (Example: ø4 mm x 9 holes) as a quide.
- Keep the board from coming in contact with the speaker to avoid short-circuit between them.
- Make a microphone opening with the microphone rubber's inside diameter (ø4.5 mm), and position the microphone in the way that its center comes to the opening center.
- Never install them as shown below. Doing so may cause the speaker sound to enter the microphone.



4. DIMENSIONAL DIAGRAM



5. CONNECTIONS



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