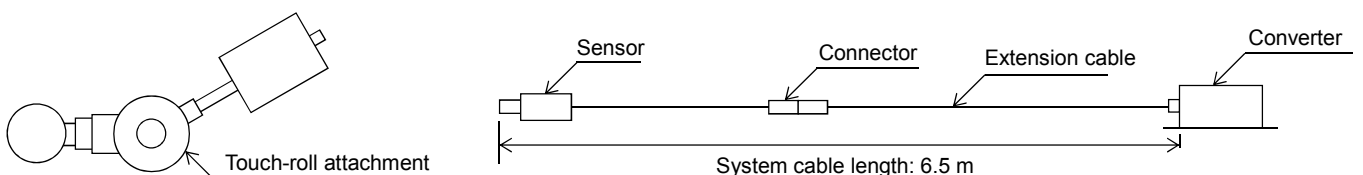


| Specifications | | Notice |
|--------------------------------------|---|--|
| Converter | VND-100A-* | <p>1. Things to prepare before using this device:</p> <p>Four M6 screws or four M6 bolts are required to install the converter.</p> <p>For the feeler gauge, a 20% of F.S. pitch (for 6-point adjustment) or a 10% of F.S. pitch (for 11-point adjustment) is required to adjust the device.</p> <p>Since the accuracy of the feeler gauge to be used depends on the measurement accuracy, use a gauge which matches the required accuracy.</p> <p>2. Assembling the device</p> <p>Before connecting the sensor, extension cable, and converter, make sure to match the serial numbers indicated on the converter name plate or inspection test report.</p> <p>Having the wrong combination of serial numbers may result in specifications not being met.</p> <p>3. Megger testing of the signal transmission cables that connect to the instrumentation</p> <p>After you perform a megger test on the signal transmission cable, make sure to discharge the electrical charge before connecting the cable to the converter.</p> <p>Connecting the cable to the converter or the instrumentation while on a charged state may cause a failure</p> <p>4. Sensor installation location</p> <p>Do not use the device outdoors where the sensor can be subject to rain water.</p> <p>Doing so may cause deterioration of the insulation and alter the sensitivity of the sensor.</p> |
| Extension cable | NW-100* | |
| Sensor | NS-100* | |
| Thickness measurement range | 0.0 mm - 10.0 mm (actual gap: 0.8 mm - 10.8 mm) | |
| Sensor offset gap | 0.8 mm | |
| Calibration material | Chilled steel (flat) | |
| Output sensitivity | 1.0 V/mm | |
| Linearity | ±0.5% of F.S. (for 6-point or 11-point adjustment) | |
| Zero shift range | Approx. ±10% of F.S. | |
| Resolution | 1 μm | |
| Digital display | 5-digit, 7-segment LED (orange) 4-digit thickness display (unit: mm), 1-digit code Accuracy: ±0.03 mm | |
| Display LED | Power (red) Meas. (green) Teach (green) Cal. Z/S (green) | |
| Frequency response | DC - 20 Hz (-1 dB typ.) | |
| Output impedance | 100 Ω | |
| Operating temperature range | Sensor: -30°C to +130°C (Connector part: -25°C to +85°C) Extension cable: -25°C to +85°C Converter: 0°C to +50°C | |
| Temperature characteristics | Sensor: ±1.5% of F.S. Condition gap: 50% of the thickness measurement range, Target: Chilled steel (flat), Temperature: +25°C is the normal temperature. Range is 0°C to +100°C Extension cable: ±1.5% of F.S. Condition gap: 50% of the thickness measurement range, Target: Chilled steel (flat), Temperature: +25°C is the normal temperature. Range is 0°C to +80°C Converter: ±1.5% of F.S. Condition gap: 50% of the thickness measurement range, Target: Chilled steel (flat), Temperature: +25°C is the normal temperature. Range is 0°C to +50°C | |
| Operating humidity range | 20% to 95% RH (non-condensing, non-immersing) | |
| Power supply | +24 VDC ±10%, Ripple (p-p) 10% or lower | |
| Current consumption | Max. of 120 mA | |
| Terminal block | Terminal block screw size: M3 | |
| Converter part insulation resistance | Between the power supply terminal and the FG terminal: 20 MΩ or higher on 500 VDC | |
| Converter part withstand voltage | Between the power supply terminal and the FG terminal: 60 Hz on 500 VAC within 1 minute | |
| Mass | Sensor: Approx. 0.7 kg Extension cable: Approx. 1.3 kg Converter: Approx. 1.0 kg | |
| Other | | |

Configuration



Model code / Additional spec. code (No entry if additional spec. code is not specified.)

- Converter

VND - * * * A - *

| Thickness measurement range | | Converter output | |
|-----------------------------|------------------|------------------|-----------------------------|
| 100 | 0.0 mm - 10.0 mm | 0 | Voltage output (0 V - 10 V) |

- Extension cable (6 m)

NW - 100 *

| Thermocouple | |
|--------------|---------|
| A | Without |
| B | With |

- Sensor (0.5 m)

NS - * * * *

| Thickness measurement range | | Thermocouple | |
|-----------------------------|------------------|--------------|---------|
| 100 | 0.0 mm - 10.0 mm | A | Without |
| | | B | With |

- Touch-roll attachment

NT - * * * A

| Specification | |
|---------------|-------------|
| 100 | For NS-100* |