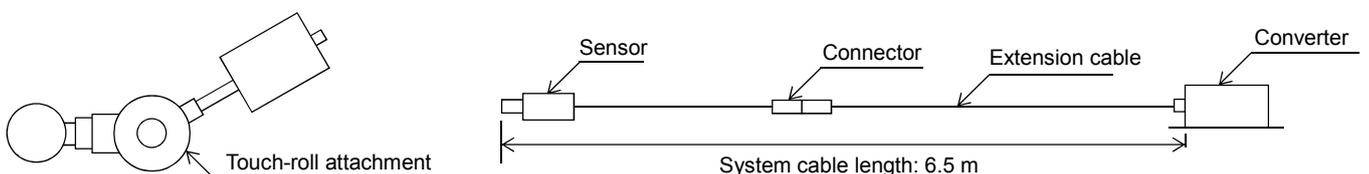


Specifications		Notice
Converter	VND-050A-*	<p>1. Things to prepare before using this device:</p> <p>Four M6 screws or four M6 bolts are required to install the converter.</p> <p>For the feeler gauge, a 20% of F.S. pitch (for 6-point adjustment) or a 10% of F.S. pitch (for 11-point adjustment) is required 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-050*	
Thickness measurement range	0.0 mm - 5.0 mm (actual gap: 0.8 mm - 5.8 mm)	
Sensor offset gap	0.8 mm	
Calibration material	Chilled steel (flat)	
Output sensitivity	1.0 V/mm, 2.0 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: ±0.005 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. 0.3 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	
050	0.0 mm - 5.0 mm	0	Voltage output (0 V - 5 V)
		2	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	
050	0.0 mm - 5.0 mm	A	Without
		B	With

- Touch-roll attachment

NT - * * * A /AG * /SGL /NWT

Specification		Angle		Swing limit: Horizontal $\pm 15^\circ$	No weight
050	For NS-050 *	0	0°		
		1	10°		
		2	20°		
		3	30°		
		4	40°		