

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

• Converter

VC-    M-    /SLC

Measured range		Output voltage		Power supply		System cable length		Silicon
010	0 to 1,000 $\mu$ m	0	0 to 5VDC(5mA max.)	0	100VAC	1	3m	
020	0 to 2,000 $\mu$ m	1	0 to 5VDC(30mA max.)	1	115VAC	2	5m	
040	0 to 4,000 $\mu$ m	2	4 to 20mADC					
060	0 to 6,000 $\mu$ m	3	1 to 5VDC					
080	0 to 8,000 $\mu$ m	4	0 to 10VDC depending on measured range					
100	0 to 10,000 $\mu$ m							
150	0 to 15,000 $\mu$ m							
250	0 to 25,000 $\mu$ m							

• Junction connector VZ-1A

{ when Model VS-250 sensor is used, no junction connector is required. }

• Sensor

VS-    L-  /WPF Directly connected type

Measured range		Sensor cable		Water-proof
010	0 to 1,000 $\mu$ m	1	0.5m	
020	0 to 2,000 $\mu$ m	2	1.0m	
040	0 to 4,000 $\mu$ m	Note) *1 BNC(male) connector is used for VS-250L sensor only. UM(female) connectors are used for others. *2 BNC(female) connector is used for VS-250C sensor only, and sensor cable is not necessary. UM(female) connectors are used for others.		
060	0 to 6,000 $\mu$ m			
080	0 to 8,000 $\mu$ m			
100	0 to 10,000 $\mu$ m			
150	0 to 15,000 $\mu$ m			
250	0 to 25,000 $\mu$ m			

VS-    C-  Connector type

Measured range		Sensor cable	
040	0 to 4,000 $\mu$ m	1	0.5m
060	0 to 6,000 $\mu$ m	2	1.0m
080	0 to 8,000 $\mu$ m	3	Without
100	0 to 10,000 $\mu$ m		
150	0 to 15,000 $\mu$ m		
250	0 to 25,000 $\mu$ m		

• Extension cable

VS-    H-  200°C type

Measured range		Sensor cable	
010	0 to 1,000 $\mu$ m	1	0.5m
020	0 to 2,000 $\mu$ m	2	1.0m
040	0 to 4,000 $\mu$ m		

VW-100E-  Only for 25,000 $\mu$ m directly connected type

Cable length	
1	2.5m
2	4.5m
3	2.0m
4	4.0m

VW-100D-  For VS except 25,000 $\mu$ m

Cable length	
1	2.5m
2	4.5m
3	2.0m
4	4.0m

VW-100F-  Only for 25,000 $\mu$ m connector type

Cable length	
1	3.0m
2	5.0m

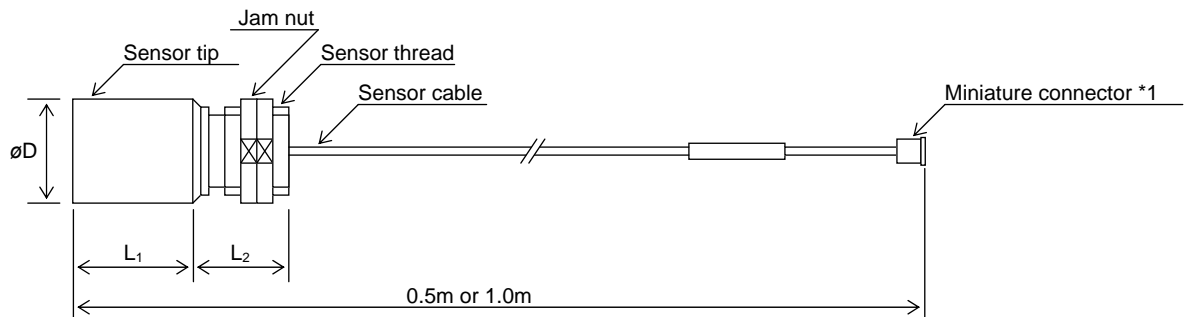
Interchangeability

There is a possibility of performance degradation when any part of the combination of the sensor, the extension cable, the converter or the target is changed from what is specified in the test report. For more information, please refer to the instruction manual.

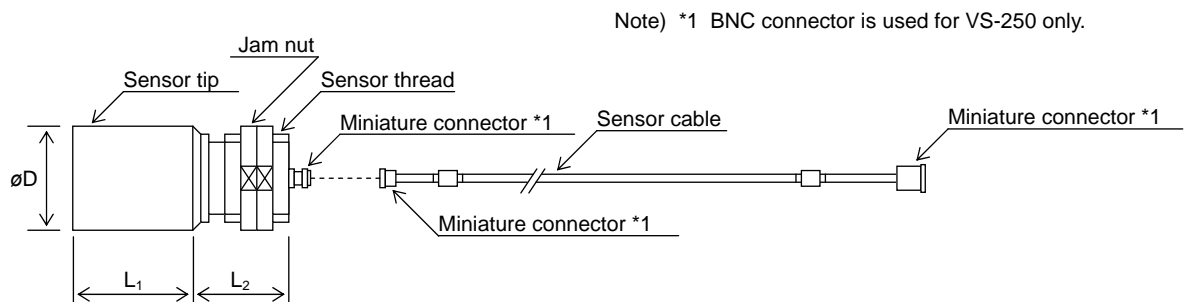
## SENSOR DIMENSIONS BY MODEL NUMBER

Sensor Model No.	Measured range	Sensor tip (mm)		Sensor thread (mm)		
		Length L <sub>1</sub>	Diameter $\phi$ D	Length L <sub>2</sub>	Normal size	Pitch
VS-010L-□ VS-010H-□	0 to 1,000 $\mu$ m	6	6.3	20	8	1.0
VS-020L-□ VS-020H-□	0 to 2,000 $\mu$ m	6	6.3	20	8	1.0
VS-040L-□ VS-040C-□ VS-040H-□	0 to 4,000 $\mu$ m	13	14.8	20	18	1.0
VS-060L-□ VS-060C-□	0 to 6,000 $\mu$ m	23	22	19	18	1.0
VS-080L-□ VS-080C-□	0 to 8,000 $\mu$ m	29	28	19	18	1.0
VS-100L-□ VS-100C-□	0 to 10,000 $\mu$ m	36	34	28	20	1.0
VS-150L-□ VS-150C-□	0 to 15,000 $\mu$ m	51	49	28	24	1.0
VS-250L-□ VS-250C-□	0 to 25,000 $\mu$ m	77.5	70	35	30	1.0

- Sensor outline(sensor directly connected with sensor cable)



- Sensor outline (sensor with connector)



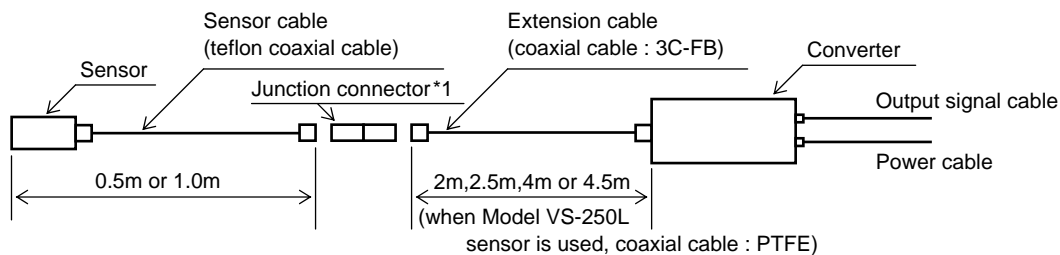
Note) \*1 BNC connector is used for VS-250 only.

## SPECIFICATIONS

Measured range	0 to 1,000 $\mu$ m, 0 to 2,000 $\mu$ m, 0 to 4,000 $\mu$ m, 0 to 6,000 $\mu$ m, 0 to 8,000 $\mu$ m, 0 to 10,000 $\mu$ m, 0 to 15,000 $\mu$ m, 0 to 25,000 $\mu$ m		
Target material	Conductor		
Calibration	Calibrated using a specified target.(supply the target if it has a special material and shape.)		
Linearity	Within $\pm 0.5\%$ of F.S. at 25°C		
Frequency response	DC to 1kHz(-3dB)		
SN ratio	54dB (within 10mVpk-pk)		
Output signal	0 to 5VDC, max. 5mA (when booster is provided, 30mA Max.)		
Zero shift	Max. -50% of F.S.		
Power supply changeability	$\pm 10\%$ changeability : Within $\pm 0.5\%$ of F.S.		
Operating temperature range	Converter	: 0 to 40°C (32 to 104°F REF.)	
	Extension cable	: 0 to 60°C (32 to 140°F REF.)	
	Sensor	: -10 to +130°C (14 to 266°F REF.)	
		-10 to +200°C (14 to 392°F REF.) (For Model VS -□□□ H)	
	Connector	: Max.85°C (185°F)	
Power supply	100VAC $\pm 10\%$ 50/60Hz		
Max. power consumption	5VA		
Color(converter)	Black		
Accessories(option)	Output signal cable	2m (with a one-sided BNC connector)	1 piece
	Power cable	3m (with AC plug)	1 piece
	Mounting bracket (L-shaped)	2 pieces(mounting screw M4 length : 8mm	4 pieces)

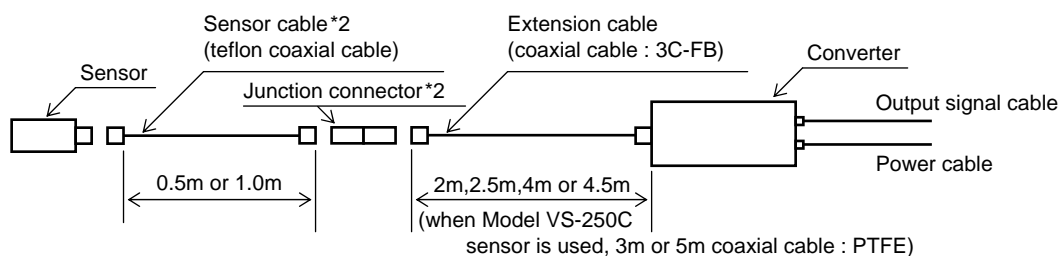
## CONFIGURATION

- Sensor directly connected with sensor cable



Note) \*1 When Model VS-250L sensor is used, no junction connector is required.

- Sensor with connector



Note) \*2 When Model VS-250C sensor is used, no sensor cable and no junction connector are required.