

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

• Converter

VC- C- /SLC

Measured range		Output		Power supply		System cable length		Silicon
005	0 to 500 μ m	0	0 to 5VDC(5mA max.)	0	100VAC	1	3m	
010	0 to 1,000 μ m	1	0 to 5VDC(30mA max.)	1	115VAC	2	5m	
020	0 to 2,000 μ m	2	4 to 20mADC					
040	0 to 4,000 μ m	3	1 to 5VDC					
060	0 to 6,000 μ m	4	0 to 10VDC depending on measured range					
080	0 to 8,000 μ m							
100	0 to 10,000 μ m							
150	0 to 15,000 μ m							
250	0 to 25,000 μ 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
005	0 to 500 μ m	1	0.5m	
010	0 to 1,000 μ m	2	1.0m	
020	0 to 2,000 μ 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.		
040	0 to 4,000 μ m			
060	0 to 6,000 μ m			
080	0 to 8,000 μ m			
100	0 to 10,000 μ m			
150	0 to 15,000 μ m			
250	0 to 25,000 μ m			

VS- C- Connector type

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

• Extension cable

VS- H- 200 $^{\circ}$ C type

Measured range		Sensor cable	
005	0 to 500 μ m	1	0.5m
010	0 to 1,000 μ m	2	1.0m
020	0 to 2,000 μ m		
040	0 to 4,000 μ m		

VW-100E- Only for 25,000 μ m directly connected type

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



VW-100D- For VC except 25,000 μ m

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

VW-100F- Only for 25,000 μ m connector type

Cable length	
1	3.0m
2	5.0m



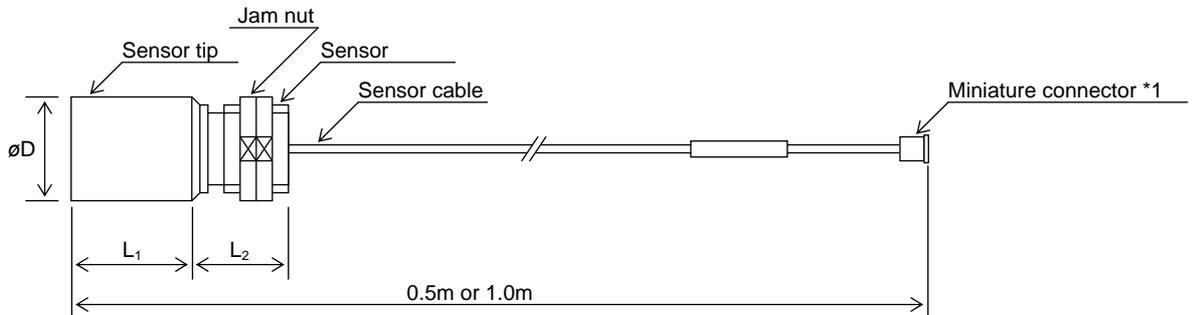
Interchangeability

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.

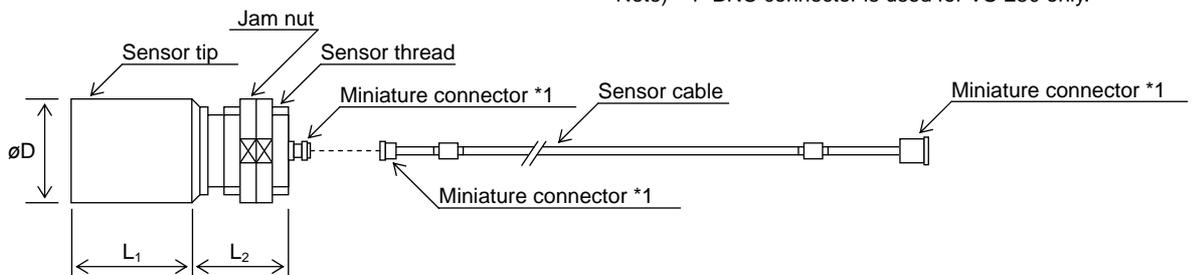
SENSOR DIMENSIONS BY MODEL NUMBER

Sensor Model No.	Measured range	Sensor tip (mm)		Sensor thread (mm)		
		Length L ₁	Diameter ϕ D	Length L ₂	Normal size	Pitch
VS-005L-□ VS-005H-□	0 to 500 μ m	3	3	20	5	0.8
VS-010L-□ VS-010H-□	0 to 1,000 μ m	6	6.3	20	8	1.0
VS-020L-□ VS-020H-□	0 to 2,000 μ m	6	6.3	20	8	1.0
VS-040L-□ VS-040C-□ VS-040H-□	0 to 4,000 μ m	13	14.8	20	18	1.0
VS-060L-□ VS-060C-□	0 to 6,000 μ m	23	22	19	18	1.0
VS-080L-□ VS-080C-□	0 to 8,000 μ m	29	28	19	18	1.0
VS-100L-□ VS-100C-□	0 to 10,000 μ m	36	34	28	20	1.0
VS-150L-□ VS-150C-□	0 to 15,000 μ m	51	49	28	24	1.0
VS-250L-□ VS-250C-□	0 to 25,000 μ m	77.5	70	35	30	1.0

- Sensor outline(sensor directly connected with sensor cable)



- Sensor outline (sensor with connector)

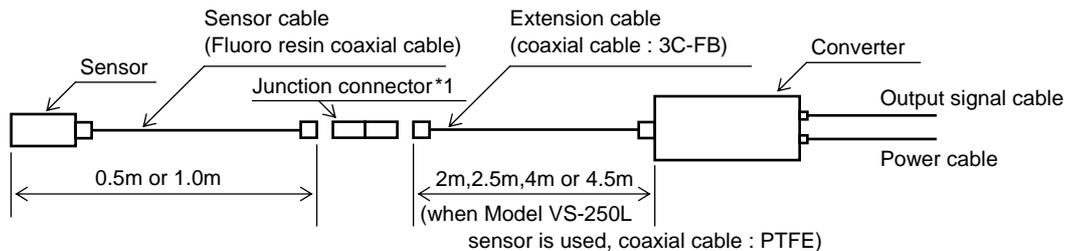


SPECIFICATIONS

Measured range	0 to 500 μ m, 0 to 1,000 μ m, 0 to 2,000 μ m, 0 to 4,000 μ m, 0 to 6,000 μ m, 0 to 8,000 μ m, 0 to 10,000 μ m, 0 to 15,000 μ m, 0 to 25,000 μ m		
Target material	Conductor		
Calibration	Calibrated using a specified target.(supply the target if it has a special material and shape.)		
Linearity	Within $\pm 1\%$ of F.S. at 25°C		
Frequency response	DC to 20kHz(-3dB)		
SN ratio	60dB		
Output	0 to 5VDC max. 5mA (when booster is provided, 30mA), 4 to 20mADC or 1 to 5VDC		
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 or 115VAC $\pm 10\%$ 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)

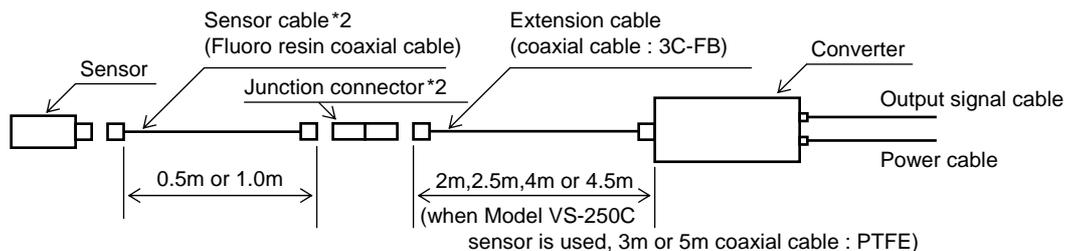
CONFIGURATION

- 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.