

PULCOM MINIS-V/V13 (Size-shift)

Small Type Ultra High Accuracy Measuring Head

■ Features

Compact/Wide Measuring Range

In addition to being compact, the need to change setup is eliminated by the wide measuring range.

High Precision, Rigidity and Durability

A newly developed fulcrum mechanism achieves high precision when size shift is performed.

Resistant to Temperature Change Fluctuation

A special sensor minimizes the change in measured values due to variations in the ambient temperature.

Retract Mechanism

A new air retract mechanism achieves a soft landing on the workpiece, preventing scratches.



■ Configurations

- PULCOM V7, V8 with size shift function
- PULCOM V10 with size shift function

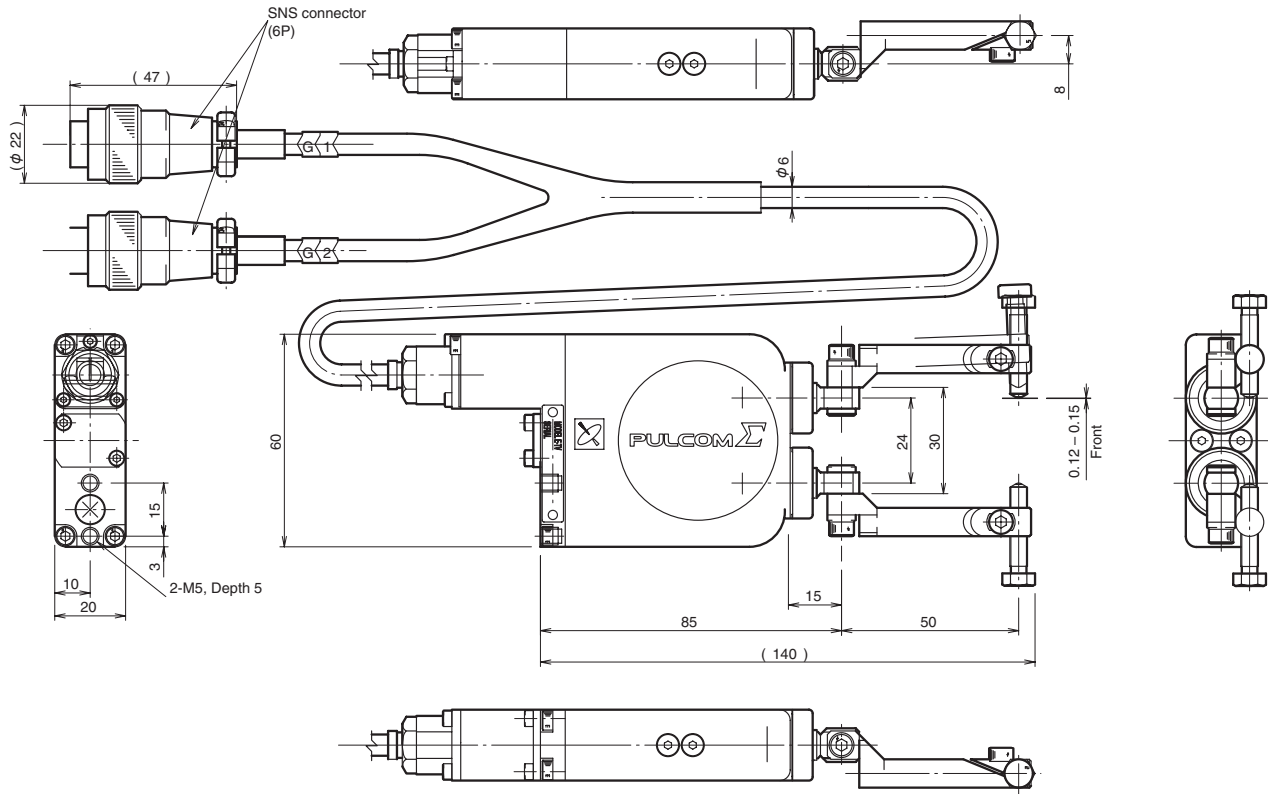
Specifications

Model		MINI Σ -V-OD			MINI Σ -V-OD-AR		
Vertical surface		E-TV-5151	E-TV-5152	E-TV-5153	E-TV-5161	E-TV-5162	E-TV-5163
Horizontal surface		E-TV-5155	E-TV-5156	E-TV-5157	E-TV-5165	E-TV-5166	E-TV-5167
Main applications	Outer/inner diameter	Outer diameter					
	Non continuous	No					
	Retract	No			Yes		
	Diff. Diameter	No					
Main specifications	Measuring range	$\phi 1 - \phi 50$ mm					
	Repeatability	0.1 μ m or less / 25 measurements			0.2 μ m or less / 25 measurements		
	Standard finger length	35 mm	50 mm	65 mm	35 mm	50 mm	65 mm
	Unit dimensions	20 x 60 x 70.5 mm					
	Weight	660 g (Unit weight: 420 g, 3m cable) (E-TV-516*-P3)					
	Air press. supply	---			0.35 - 0.5 MPa		
	Measuring force (at 0 position)	0.75 \pm 0.15N or less					
	Retract distance (one side)	---			3mm or less	3.5mm or less	4mm or less
	Front travel (one side)	0.12 - 0.15 mm					
Waterproof standard	IP67 compliant						

Model		MINI Σ -V13-OD-AR		
Vertical surface		E-TV-3161	E-TV-3162	E-TV-3163
Horizontal surface		E-TV-3165	E-TV-3166	E-TV-3167
Main applications	Outer/inner diameter	Outer diameter		
	Non continuous	No		
	Retract	Yes		
	Diff. Diameter	Yes		
Main specifications	Measuring range	$\phi 1 - \phi 50$ mm		
	Diff. diameter range	6 mm (limited)	8 mm (limited)	13 mm
	Repeatability	0.3 μ m or less / 25 measurements		0.5 μ m or less / 25 measurements
	Standard finger length	35 mm	50 mm	65 mm
	Unit dimensions	20 x 60 x 70.5 mm		
	Weight	660 g (Unit weight: 420 g, 3m cable) (E-TV-516*-P3)		
	Air press. supply	0.35 - 0.5 MPa		
	Measuring force (at 0 position)	0.6 - 2.0 N	0.6 - 2.2 N	0.6 - 2.8 N
	Retract distance (one side)	2.7 - 3.0 mm	3.2 - 3.5 mm	4.1 - 4.6 mm
Front travel (one side)	1.62 - 1.65 mm	2.12 - 2.15 mm	3.37 - 3.40 mm	
Waterproof standard	IP67 compliant			

Outer Appearance/Dimension Diagram

E-TV-515



E-TV-516

E-TV-316 (Size shift)

