



GT2-A12

Sensor Head, Air Cylinder Model



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		GT2-A12
Detection system		Quartz glass scale, CMOS image sensor projection system, Absolute type (without tracking error)
Measuring range		12 mm 0.47"
Resolution		0.5 μm 0.02 Mil
Indicated accuracy		2 μm 0.08 Mil (p-p)*1
Measuring force	Downward mounting	1.2 N*2
	Side mounting	1.1 N*2
	Upward mounting	1.0 N*2
Sampling cycle		1 ms
Fluid used		Dry air
Operation indicator light		2-color LED (red, green)
Environmental resistance	Enclosure rating	IP67*3
	Pressure resistance	1 MPa
	Applied pressure range	0.25 to 0.5 MPa
	Ambient temperature	0 to +55 °C 32 to 131 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s ² (IEC60068-2-27)
Materials	Main body	Main body case: Zinc die-casting; Cylinder part: Aluminium alloy; Air joint resin part: Polyacetal; Air joint metal part: Brass nickel plating; Indicator: Polyarylate
	Dust boot	NBR
	Contact	TYPE304, 440C Stainless steel*4
Sensor head cable		Optional (connect to the M8 connector)
Weight		Approx. 145 g (excluding cable)

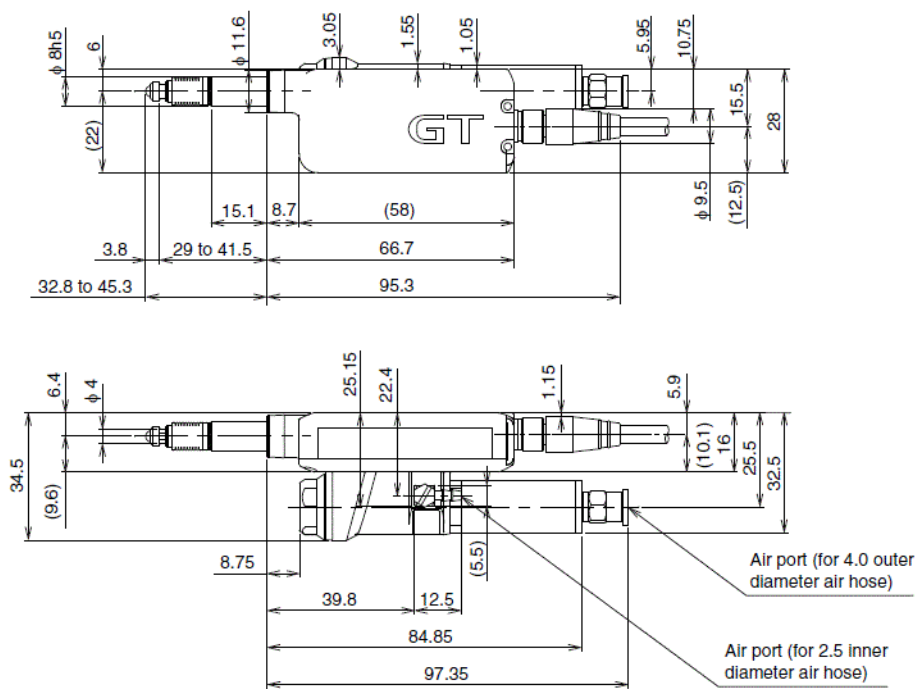
*1 Value when the ambient temperature is 20 °C 68 °F.
*2 Value at center of measuring range. Please note that the measurement force changes depending on the installation state of the dust boots.
*3 Make sure the air tube is connected to the air exhaust joint and that no foreign materials enter inside from the joint.
*4 The contact is included with the sensor.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

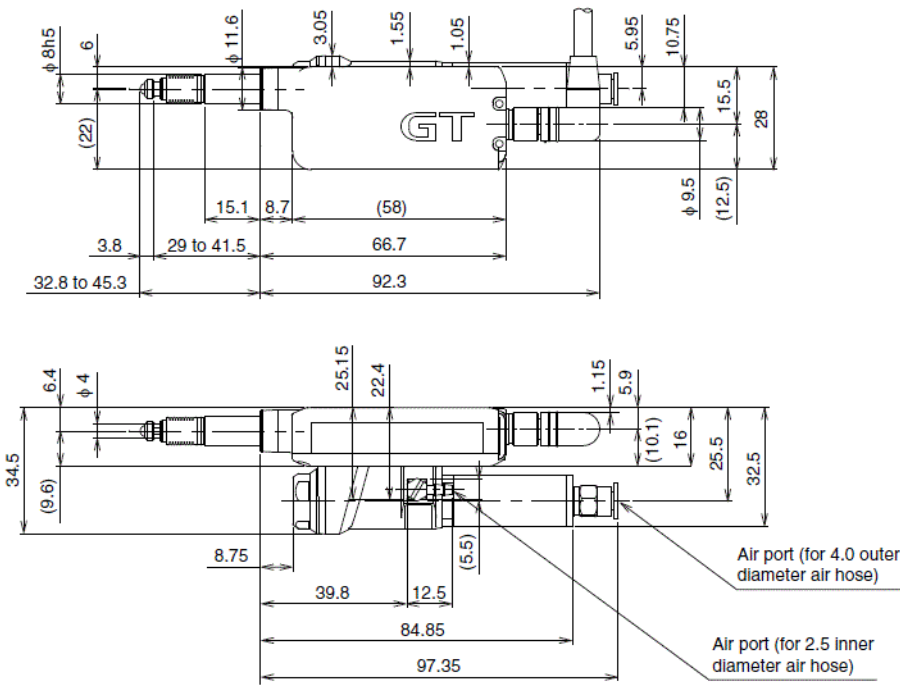
■ GT2-A12K(L)/A12(L)

When GT2-CH2M/5M/10M/20M is mounted



Unit: mm

When GT2-CHL2M/5M/10M/20M is mounted



Unit: mm

Reference

There is no dust boot for GT2-A12KL/A12L.