PCA-375 PR-020 Series Gage Heads

Ultra-Compact Design for ±0.020" Range Measurement

DESCRIPTION

The New PCA-375 PR-020 Series Gage Head is an ultra-compact device that provides accurate measurement in areas with limited space.

Designed with a radial cable exit, the gage head

easily fits within miniature fixtures and small inside diameters. AC-operated, this ultra-compact gage head is compatible with all Schaevitz® signal conditioning.

A spring-loaded probe with 2.5oz (70.8g) of force maintains constant contact with the part under measurement.

The ultra-compact gage head provides excellent stroke-to-size ratio due to its compact design. A permanently lubricated, bronze bearing and plunger assembly provides long-term transducer repeatability.

With an LVDT as the heart of the sensor, resolution is only limited by the repeatability of the bearing system. An interchangeable 4-48 ADG standard dial gage contact tip is used.



FEATURES

- ◆ Compact Design
- → Rugged Polyurethane Cable
- ♦ 90° Cable Exit
- ◆ Calibration Certificate Supplied With Every Gage Head
- Compatible With All Schaevitz®
 Signal Conditioners
- → 7 Connector Options and Special Contact Tips Available

APPLICATIONS

- → Bore Gages
- → Fixture Gages
- Limited Space
- ◆ Small Inside Diameters

electrical specifications

Linearity: Better than ±0.5% FRO

Excitation Voltage: 3.5 V rms (maximum)

Excitation Frequency: 5 kHz. (2.5 to 10 kHz. OK)

Sensitivity: 4.75 mV/V/0.001" at 5 kHz (min)

Phase Shift: +60° (nominal)

Primary Impedance: 94.5 ohms (nominal) Secondary Impedance: 214 ohms (nominal)

mechanical specifications

Linear Range ±.020" (±0.51 mm)

Pre-travel: 0.002" to 0.005" (0.05 to 0.13 mm)

Total Mechanical

Stroke: 0.060" nom (1.52 mm)

Temperature Range: 0°F to 250°F (-18°C to 121°C)

Repeatability: 0.00004" (0.01" mm)

Cable Length: 6.5 ft (2 m)

Housing Material: 304 stainless steel

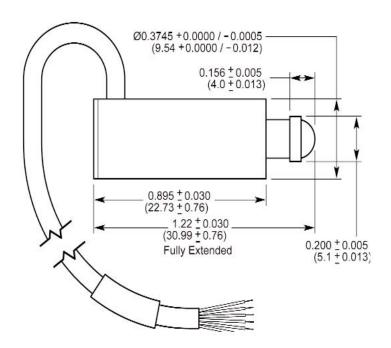
Probe Force: 2.57 oz (72.8 g) at null

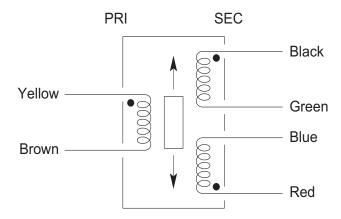
Contact Tip: 4-48 ADG

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Dimensions in (mm)





Connect Green to Blue for differential output

PCA-375PR020_0407

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