

ORS Series Data Sheet



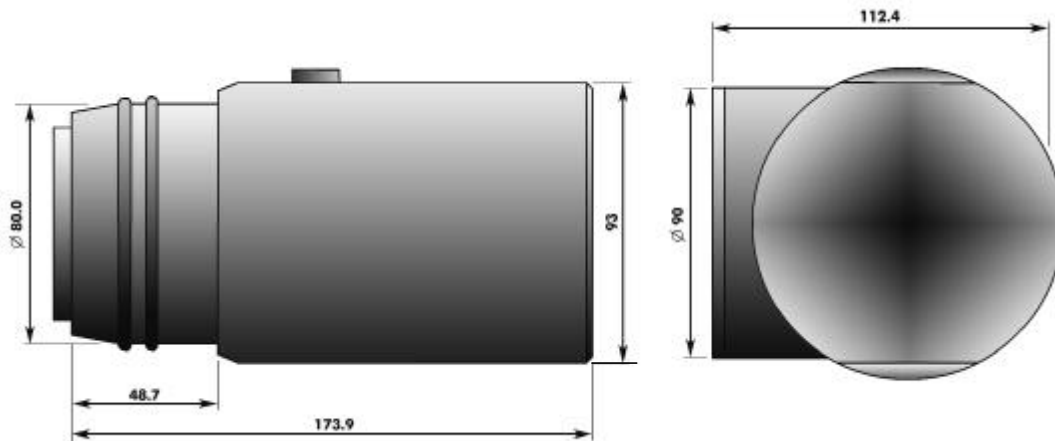
ORS Series

The ORS - Optical Ring Scanner - is effectively a line scanner where the line forms a circle on the object to be measured. This has the major advantage that the sensor head need not be rotated in order to follow a curved edge.

Additionally, the effective measured point data rate is far higher than conventional line systems as the circular beam allows much smaller axial increments between measurements.

Specific Technical Data

	ORS
Scan ring diameter	10 mm
Measurement range	20 mm
Standoff	100 mm
Lateral measurement accuracy	≤ 50 µm
Axial measurement accuracy	≤ 20 µm
Maximum data rate	3 kHz
Laser spot size	100 µm



General Technical Data

	ORS
Working temperature range	+18°C to +22°C
Operating temperature range	+10°C to +40°C
Storage temperature range	-10°C to +70°C
Air humidity	max. 80% (non-condensing)
Laser safety	Class II or 3B (wavelength 680 nm)
Speed of adaption to reflection	< 1 ms
Threshold angle for detection of inclined surfaces *1)	80°
Threshold angle for precision specifications *1)	60°
Mech. / elec. interface	Renishaw PHS joint
Weight	1.100 g

*1) dependent on measured surface, figures based on reference surface

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