

NC4

Non-Contact Tool Setting & Detection



The **Renishaw NC4** and **NC4+** systems allow fast, non-contact tool setting and breakage detection. Available as fixed and separate systems, it can be configured for most machining systems.

Benefits

- Quickly measure tool length and diameter
- High speed broken tool detection
- Significantly reduce scrap, rework, and concessions
- Reduced system maintenance and downtime
- No control system or M-Codes required
- Compact design minimizes space required within the machine tool

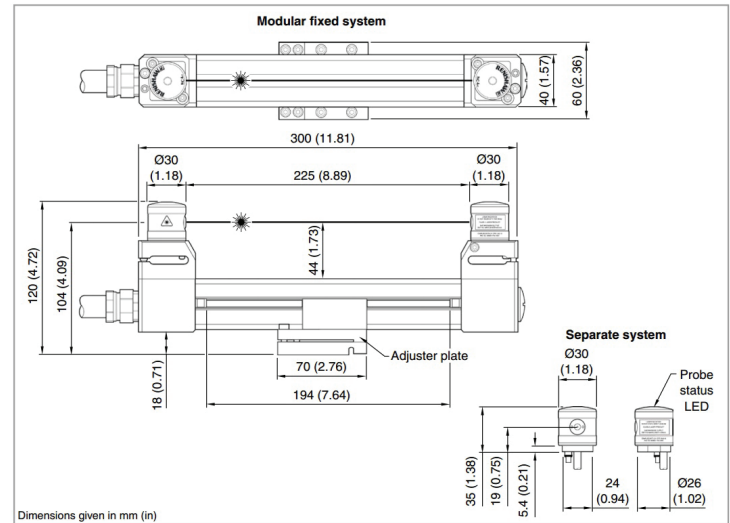
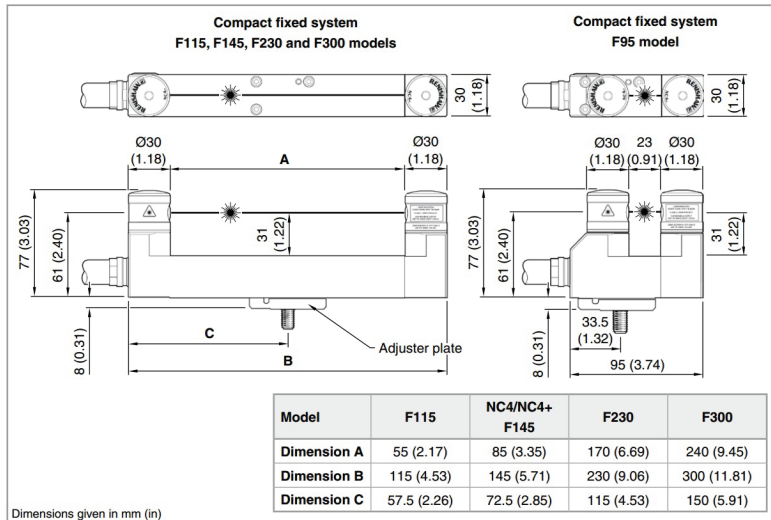
Features

- Compact fixed laser configurations offering 0.10 μm repeatability at 2 σ
- MicroHole™ Protection System and Innovated PassiveSeal™ combine to maintain IPX8 environmental protection
- Can be configured to detect tools as small as $\varnothing 0.03\text{mm}$
- Can be configured with separation up to 5m for maximum flexibility
- Custom mounting brackets currently available for adaption to many 4th and 5th axis machines

Specifications

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Primary application		High-precision, high-speed, non-contact tool measuring and broken tool detection on all sizes of vertical and horizontal machining centers, multi-tasking machines and all gantry machining centers.
Repeatability	Typical	1.0 μm (4 μin) 2 σ
	Specified	NC4 $\pm 1.00 \mu\text{m}$ (39 μin) 2 σ at 1 m (3.28 ft) separation NC4+ F145 $\pm 1.00 \mu\text{m}$ (39 μin) 2 σ at 85 m (3.35 in) separation
Sealing		IPX8 (EN/IEC 60529) with air on or off



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