

**RENISHAW** 

# OMP60

Optical Machine Probe



The **Renishaw OMP60** features a compact design with optical transmission for workpiece set-up inspection on a wide range of medium and large machining centers.

## Benefits

- Reduced set-up & calibration routines provide more time for machining cycles
- Improved process control and quality
- Reduced, rework, concessions and scrap
- Less operator intervention
- Long service life
- Fast to install & easy to use
- Used with automatic tool changers

## Features

- Compact 3D touch-trigger probe uses Renishaw's proven Kinematic Design
- Exceptional resistance to light interference with Modulated Transmission
- 1.00  $\mu\text{m}$   $2\sigma$  repeatability



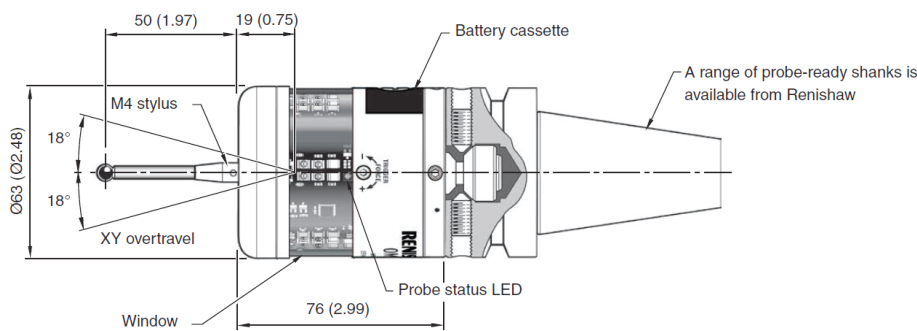
## Specifications

### Specifications

<b>Primary application</b>	Workpiece inspection and job set-up on all sizes of machining centers and small to medium multitasking machines.
<b>Sense directions</b>	$\pm X \pm Y + Z$
<b>Trigger force</b> using 50 mm (1.97 in) stylus low force direction	<b>XY</b> 0.75 N / 76 gf (2.70 ozf) <b>Z</b> 5.30 N / 540 gf (19.06 ozf)
<b>Trigger force</b> using 50 mm (1.97 in) stylus high force direction	<b>XY</b> 1.40 N / 143 gf (5.04 ozf) <b>Z</b> 5.30 N / 540 gf (19.06 ozf)
<b>Overtravel</b>	<b>XY</b> $\pm 18^\circ$ <b>Z</b> 11 mm (0.43 in)
<b>Sealing</b>	IPX8 (BS 5490, IEC 529) 1 atmosphere
<b>Repeatability</b> maximum $2\sigma$ value in any direction	1.0 $\mu\text{m}$ (0.00004 in) is valid for test velocity of 480 mm/min (1.57 ft/min) at stylus 50 mm (1.97 in) long.

### Battery Life (2 x AA 3.6 V lithiumthionyl chloride)

Stand-by Life	Continuous use	Continuous use
Typical (days)	Modulated	Legacy
Standard power mode	Low power mode	Low power mode
1767 days	690 hours	880 hours



### Renishaw Inspection Plus Software Cycles

- X or Y or Z single surface measure
- Web/pocket measure
- 4 point bore/boss measure
- Internal/external corner
- 3 point bore/boss vector measure
- Angled XY surface measure
- Holes on a pitch circle diameter (PCD) ie: Bolt hole patterns
- 4th axis measure. Can be modified for 4th and 5th axis applications
- Stock allowance
- Multi-stylus calibration with option to run multiple probes with different stylus angles
- Calibration on a ring or sphere available
- XYZ single surface vector measurement
- Optional software available for true 3D and form measurement

### Productivity Quality, Inc.

15150 25th Avenue North, Suite 200  
Plymouth, MN 55447  
www.PQIProbing.com  
(800) 772-0620

