# **OMM - optical module machine**

The OMM is an optical transmitter/receiver, which conveys signals between an inspection probe and MI 12 interface unit.



## **OMM STATUS LED's**

Visual indication of system status is provided by LED's (Light Emitting Diodes).

- 1. LED (red) Lit when power is on.
- 2. LED (x 3)

Transmit infra-red control signals to the probe.

- LED (green) Lit when signal is received from the probe.
  LED (yellow)
  - Lit when the MI 12 sends a start signal to the probe.
- 5. Sealing gland
- 6. Cable
- 7. Conduit

## FEATURES

- Toughened glass window
- □ Sealed to IP68 for machine tool environment.
- Internal range selection switch Reception (Rx) 25%, 50% or 100%.
  Transmission (Tx) 50% or 100%.
  Factory set to longest ranges.

# OMM OPTIMUM POSITION SETTING

To assist finding the optimum position for the OMM during system installation, a signal strength voltage output is available on the MI 12 interface.

## OMM TANDEM MOUNTING

Installations with exceptionally long spindle movement, may require a second OMM to provide signal reception over the probe's full working envelope. The reception cones of OMM 1 and OMM 2 overlap, so they act as one receiver.

#### OMM TWIN MOUNTING

Each spindle of a twin spindle machine can accept a probe. Although both OMM 1 and OMM 2 are switched on, only one probe may be used at any one time.

#### WARNING

When two optical probe systems are operating in close proximity to each other, take care to ensure that signals transmitted from the probe on one machine, are not recieved by the OMM on the other machine, and vice versa.

The OMM may have to be shielded from direct light sources.

RENISHAW DATA SHEET





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