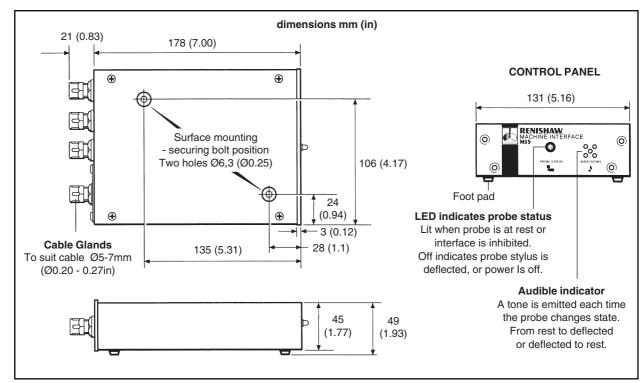
## **MI 5 interface unit**



The MI 5 interface unit is part of a hard wired or inductive transmission probe system. It is used with CNC machine tools for workpiece set up and inspection. The MI 5 converts probe signals into an acceptable form for the CNC machine control.

### **MI 5 operation**

The MI 5 interface monitors probe status. When the probe triggers or reseats, the output relays change state, and the audible indicator sounds.

The front panel LED (Light Emitting Diode) is lit up when the stylus is seated, and is off when the stylus is deflected, or the power is off.

The output signal is simultaneously transmitted to the CNC control through the solid state relay (SSR) output(s).

As the probe moves away from the workpiece, the audible indicator emits a second 'bleep', and the LED lights up, indicating that the stylus has reseated, and the probe is available for the next move in the measuring cycle.

The input power supply and SSR outputs are fuse protected by 200mA and 63mA fuses respectively. To gain access to the fuses, remove the four cover screws and cover.

### Inhibit / enable function

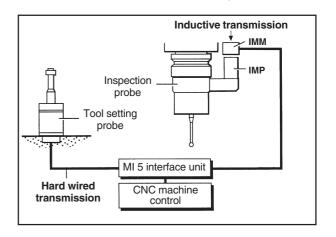
The MI 5 output may be held in the probe at rest state. This can be automatically controlled by an M code from the CNC machine control.

### Power supply

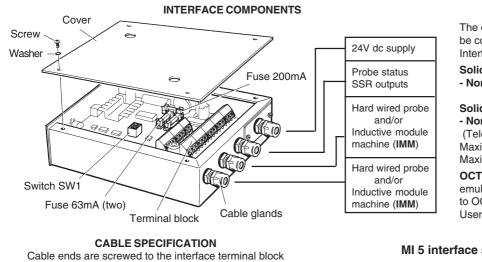
The interface unit can draw its power from the CNC machine nominal 24V dc supply. Its input voltage range is 18V dc to 30V dc and it presents a load of up to 200mA. It can alternatively be powered from a Renishaw PSU3 Power Supply Unit.

### Environment

The MI 5 interface is specified for storage over  $-10^{\circ}$  to 70°C (14° to 158°F) and operation over 0° to 50°C (32° to 122°F) ambient temperature range.



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#### **OUTPUT SIGNAL**

The output signal from the interface must be compatible with machine control. Interface output options are:

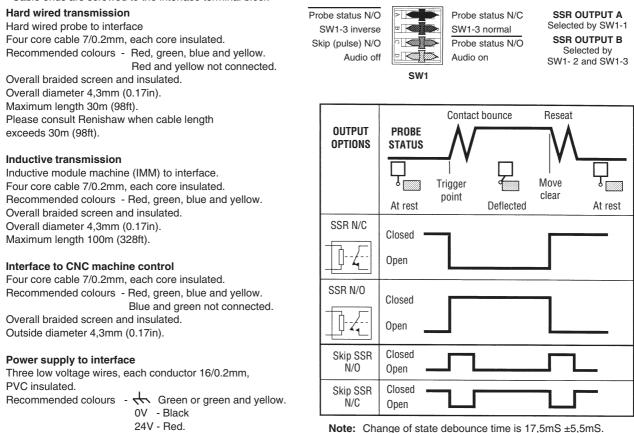
Solid state relay (SSR) - Normally closed (N/C) or

### Solid state relay (SSR) - Normally open (N/O) (Teledyne 640-1 or equivalent)

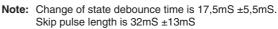
Maximum current ±40mA peak Maximum voltage ±50V peak

OCT and TTL style outputs can be emulated. Detailed information relating to OCT and TTL outputs is given in Users Guide

### MI 5 interface switch SW1 options



Each wire outside diameter 1,6mm (0.06in).



### Parts List - Please quote the Part No. when ordering equipment

Туре	Part No.	Description	The MI 5 interface has
MI 5 Fuse Fuse	A-2019-0006 P-FS01-0200 P-FS02-0063	MI 5 interface unit complete with spare fuses 200mA anti-surge fuse, dia 5 x 20mm long 63mA quick blow fuse, dia 5 x 20mm long	tested to European dire EN 50081-2 and EN 50082-2. It conforn protection requirement Directive 89/336/EEC o

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Part no. H-2000-2180-10-F

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