## **MI 8 interface unit**

The MI 8 interface processes signals from Renishaw hard wired probes and converts the signals into voltage free solid state relay (SSR) output, for transmission to the CNC machine control.



#### MI 8 INTERFACE UNIT (Variant for DIN rail mounting also available)

Ideally install the interface in the CNC machine control cabinet. Take care to avoid potential sources of interference, such as three phase transformers and motor controllers.



**Tool setting probe**, mounted on indexing arm or Renishaw manual arm - hard wired to CNC control.

#### **APPLICATIONS**

- 1. Hard wired spindle probe for CNC machining centres.
- 2. Hard wired tool setting probe for CNC lathes and machining centres.

#### **PROBE STATUS LED** (Light Emitting Diode) The front panel LED is lit when power is on and the probe stylus at rest. The LED is off when the stylus is deflected. A remote LED (not supplied by Renishaw) can be connected and positioned where it is visible to the machine operator, if the MI 8 is not is view.

#### POWER SUPPLY

The MI 8 can draw its supply from the CNC machine 15 to 30V dc and presents a load of up to 50mA. Alternatively a Renishaw PSU3 power supply unit supplies power when a 24V supply is not available from the machine control.

#### WARNING

### The MI 8 interface must NOT be used with an In-line signal conditioning module (SCM). Renishaw high precision tool setting arms (HPA) and

some TS20 probes are supplied with a SCM. The SCM provides an OCT output, if an SSR output is required, then a Renishaw SRR convertor must be incorporated between the SCM and the CNC machine control *(see Data Sheet H-2000-2117 SSR convertor).* 

#### SPECIFICATION

Supply voltage	15 to 30V dc maximum
Supply voltage (with ripple)	16,5 to 28,5V with 3V peak to peak ripple at 100 Hz.
Supply current	50mA nominal.
Supply protection	80mA (T) anti-surge fuse (FS1).
Probe input	Normally closed, open for trigger.
MI 8 output	Voltage free - solid state relay (SSR) Normally open (N/O) or normally closed (N/C), selected by switch SW1. Maximum current 50mA peak. Maximum voltage ±50V peak.
Environment	Storage temperature range -10° to 70°C (14° to 158°F). Operating temperature range 5° to 50°C (41° to 122°F).

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