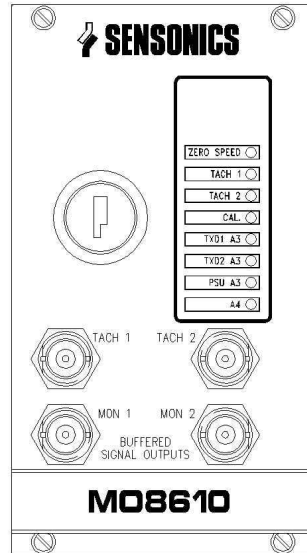


SENTRY SYSTEM



MO8610 – DUAL CHANNEL PHASE MARKER MODULE



- * 2 EDDY CURRENT PROBE INPUTS.
- * MODULAR, RACK MOUNTED.
- * INDEPENDENT POWER SUPPLY.
- * HIGH VISIBILITY LED DISPLAY.
- * 4 ALARM RELAYS PER MODULE.
- * DESIGNED TO MEET API 670.
- * ZERO SPEED ALARM.
- * TRANSDUCER INTEGRITY ALARM.
- * TTL OR OTHER PULSE OUTPUT.

The Sensonics MO8610 Module is one of the SENTRY series signal conditioning units that is used to provide a phase reference signal by means of an eddy current probe and a toothed target wheel fitted to a machine shaft. The modules in the SENTRY series are designed to be housed in the Sensonics RA8600 series 19 inch 3U extended eurocard rack system. The signal conditioning unit is fitted with zero speed alarm indications and Tach and Mon front panel buffered outputs.

The signal input to the module is a single pulse per revolution derived from an Eddy Current Probe looking at the target wheel on the shaft of the machine being monitored. These pulses will normally be voltage pulses produced from a Sensonics eddy current probe mounted on the machine at right angles to the shaft axis and in proximity to the target wheel. An associated EC driver unit provides the signal output to the phase marker module, the latter supplying -24V dc power to the driver unit. The module has an adjustable or self-tracking threshold level through which the input signal pulses must pass to produce a trigger.

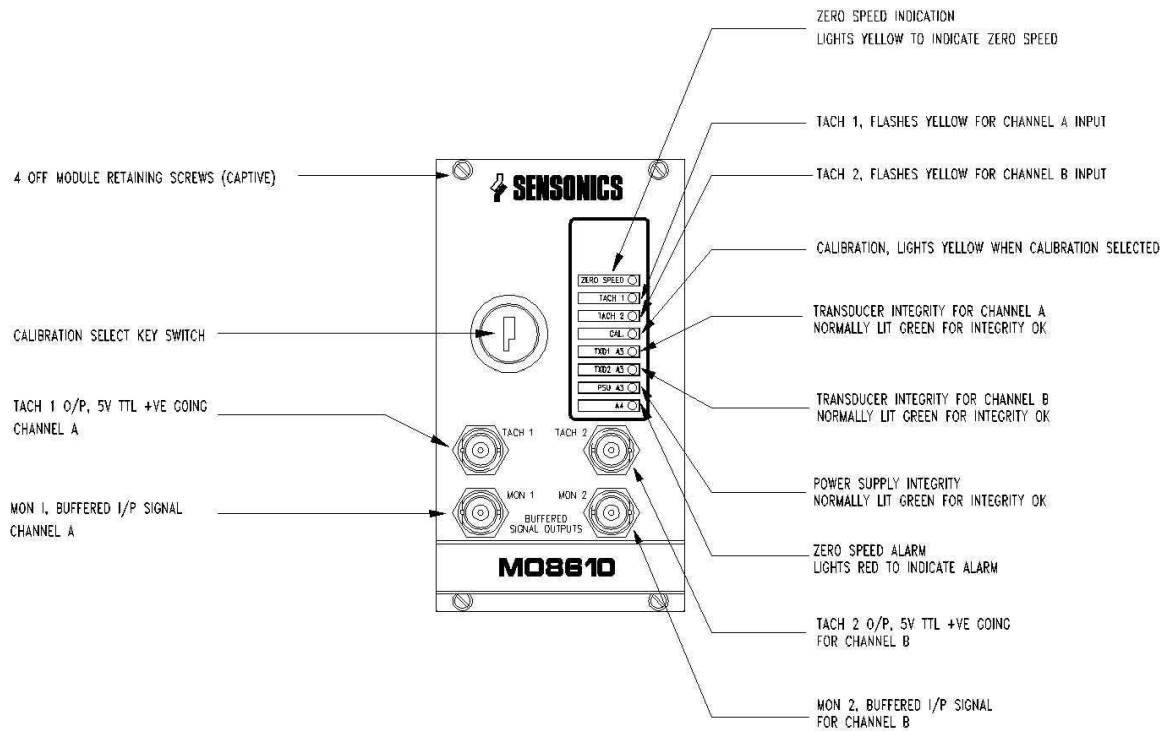
The module is fitted with a ZERO SPEED indication and alarm O/P. When the front panel calibration key is closed on the phase marker module, all modules in the rack system are switched to internally set calibration levels.

A channel integrity alarm, (A3), monitors the transducer/PSU, field cabling and microprocessor, and a common A3 relay is provided. A green A3 TXD and A3 PSU "OK" LED illuminates on the front panel. If the TXD or PSU are faulty (green LED unlit) then the associated A3 relay will change its state. With an internal microprocessor watchdog The 'MON' BNC connectors mounted on the front panel are to provide information on the input signals. The signal level is the 'raw' input voltage direct from the module signal input from the transducer. The output is buffered and therefore an accidental overload or a short circuit will not affect the integrity of the module. The 'TACH' BNC connectors at the front panel provide the conditioned tacho signals which can be voltage of TTL pulses.

SENTRY SYSTEM

MO8610 – DUAL CHANNEL PHASE MARKER MODULE

Front Panel Facilities and Functions



SPECIFICATION

Input

Transducer Type	Eddy current probe system
Sensitivity	100mV/ thou or 200mV/ thou
Power Supply	110V or 240V AC 50-60 Hz or DC version
Operating temperature range	0°C to 50°C

Output

Signal Outputs	A & B outputs TTL 5V
Meter accuracy	+/- 5% of true value
Relays	4 alarm relays per module as standard
	A3 - Channel integrity alarm
Buffered transducer output	BNC connectors on front of panel, and rear of rack.
Tach signal (TTL)	BNC connectors on front of panel, and rear of rack.

Dimensions

Height	128.8mm (3U)
Width	70.7mm (14HP)

DS1040



Sensonics Ltd
 Northbridge Road
 Berkhamsted
 Herts, HP4 1EF
 United Kingdom
 Tel: +44 (0)1442 876833
 Fax: +44 (0)1442 876477
www.sensonics.co.uk