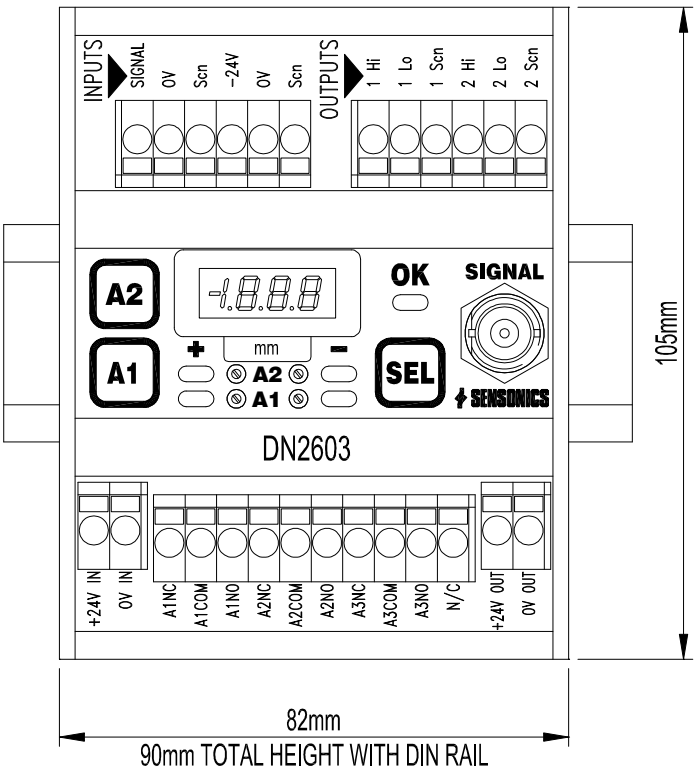
TECHNICAL INFORMATION

PREDICTIVE MAINTENANCE SYSTEMS

SENSONICS LTD

DN2603 Single Channel Thrust Monitor

This low cost high performance signal conditioning unit is ideally suited to providing protection of many types of rotating machinery from breakdown, including turbines, motors, pumps, fans, etc.
Its small size and din rail mounting format allow it to be mounted in equipment panels with other equipment or locally to the monitored machine in a junction box. Unit will fit both 35mm and G type DIN rails. The DN2603's alarms can be used to automatically trip plant and it's analogue outputs are suitable to input to DCS or other control/monitoring



Input: Eddy Current Driver 200mV/thou (8mV/um) as standard. Option for 100mV/thou (4mV/um).

Power: 24V dc (22 – 28V dc).

Display: 3 digit LCD display switchable between alarm setpoints. Display is in engineering units. (mm or thou)

Outputs: 2 x 4-20 mA outputs proportional to displacement level.

Signal: Buffered raw transducer signal available on BNC connector for analysis purposes.

Alarms: 2 positive and 2 negative going alarm levels.
1 x common system integrity alarm.

Scaling: Displacement levels are selectable on site, from a standard list, by the positioning of onboard switches.

DN2603 Single Channel Thrust Monitor Module Ordering Information

ORDERING CODE INFORMATION

	A	*B*	*C*	*D*	*E*
DN2603	- ☐	- ☐	- ☐	- ☐	- ☐

A) Input

A	
1	Eddy current Probe, 8mV/µm (200mV/thou)
2	Eddy current Probe, 4mV/µm (100mV/thou)
3	Eddy current Probe, Any Other Sensitivity, please provide details.

B) Output Signal
e.g.
0 - 2.0mm=4-20mA &
2.0 - 0mm=4-20mA

B	
0	None
1	1x 4-20mA Increasing gap & 1x 4-20mA decreasing gap
2	1x 0-1Volt Increasing gap & 1x 0-1Volt decreasing gap
3	1x 0-5Volts Increasing gap & 1x 0-5Volts decreasing gap

C) Metric or Imperial units displayed

C	
1	Metric
2	Imperial

Note: Code item D, can be set on site by selecting internal DIL switches

D) Measurement range for output

D	*Metric*	*Imperial*	*Note*
A	0-0.5mm	0-0.020inch	8mV/µm & 4mV/µm probes
B	0-1.0mm	0-0.040inch	8mV/µm & 4mV/µm probes
C	0-2.0mm	0-0.080inch	8mV/µm & 4mV/µm probes
D	0-2.5mm	0-0.100inch	8mV/µm & 4mV/µm probes
E	0-4.0mm	0-0.160inch	With 4mV/µm probe only
F	±0.5mm	±0.020inch	8mV/µm & 4mV/µm probes
G	±1.0mm	±0.040inch	8mV/µm & 4mV/µm probes
H	±1.25mm	±0.050inch	8mV/µm & 4mV/µm probes
I	±2.0mm	±0.080inch	With 4mV/µm probe only
J	Other, Please state range and probe sensitivity		

E) Alarm delay

E	
1	1s (Standard)
	3, 5 or 10 seconds

Example of Order Code

DN2603-1-1-1-C-1 **is CHA & CHB Eddy current probe input 8mV/µm sensitivity, 4-20mA output, Metric display units of measurement, 0-2.0mm range, 1 second delay.**

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