

## Reassurance to machine builders as published list is now complete

The complete list of harmonised standards under the Machinery Directive 2006/42/EC has now been published, with a number of missing standards being included – hopefully bringing comfort to machine builders who have been working without the reassurance of presumption of conformity.

Peter Still, industry standards manager at Schneider Electric, says: "It is satisfying to see the European Commission list of harmonised standards has been republished to include vital standards, such as EN954-

1 and EN 60204-1. The omission of these when the list was published in January of this year caused much confusion to machine builders.

"With the standards now included, machine builders will have much needed piece of mind when carrying out their work. While it won't change their working practices, as most machine builders were following the omitted standards anyway, they will be legally entitled to presume that working to these standards will conform to the Machinery Directive."

[www.schneider-electric.co.uk](http://www.schneider-electric.co.uk)

## Reducing risk with SIL vibration monitoring

Effective vibration monitoring can prevent failure in critical plant, so improving safety

Monitoring vibration on critical rotating plant can play a key role in meeting the protection requirements of the latest machinery directives, specifically Directive 2006/42/EC which came into force at the end of 2009. This directive demands that machine manufacturers identify the hazards

and risks their products present to users. Any risks identified must be reduced to as low a level as is reasonably practicable. The important considerations are that failure of rotating plant can not only be expensive in terms of repair cost and lost revenue through downtime, but also pose a significant health and safety risk. Also, what level of integrity does a vibration protection system need to ensure safe shutdown under all operational conditions?

To help manufacturers and operators meet these latest protection requirements and to minimise the risks, condition monitoring specialist Sensonics has developed proven and robust vibration protection systems for many industrial sectors. For example its DN2611 SIL (Safety Integrity Level) rated dual channel monitor is ideal for machine casing and bearing vibration monitoring applications. It provides dual level alarms (warning and danger) for



each channel and provides a relay interface for plant shutdown and health monitoring.

Current loop outputs for each channel are provided for interfacing with a PLC for trending and further alarm monitoring. The transducer interface can be configured for operation with or without safety barriers. In a simplex configuration the monitor used in conjunction with Sensonics PZS4 accelerometer is suitable for SIL 1 applications, while in a duplex configuration (two parallel channels) protection can be provided at a SIL 2 level.

Where the probability of failure to trip on demand for each configuration is designed to meet SIL target, the resulting spurious trip performance is also excellent. This ensures a high integrity protection solution with minimal risk of downtime due to spurious events.

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## MULTIFUNCTIONAL GATE BOX

All possible functions in one housing. Due to transponder technology this system meets the highest safety levels. The set is suitable for hinged and sliding doors.

Three semiconductor outputs provide the status: door closed (1), bolt detected (2), safely locked (3). In addition two safe pulsed semiconductor outputs are activated after a safe condition is achieved.

- Detection through transponder technology
- Stable metal parts
- High retention force
- Illuminated buttons
- Escape release on the back

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## Versatile door switch

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More than safety.



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