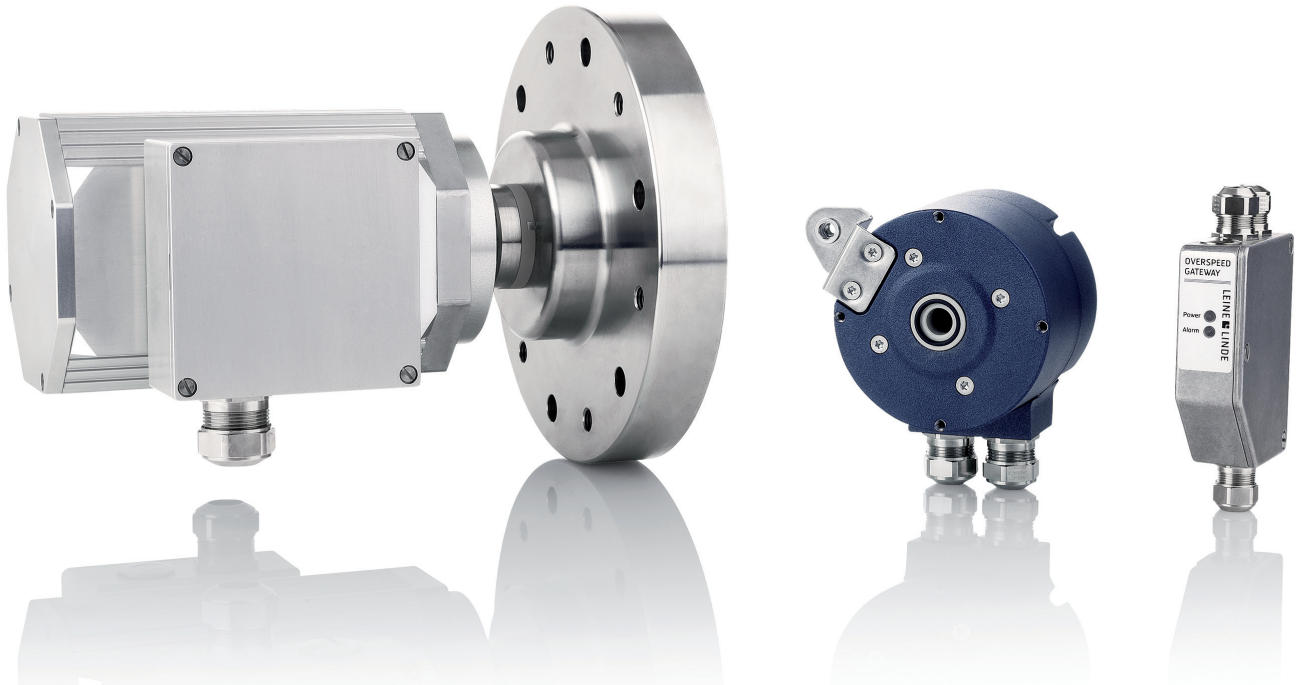


OVERSPEED

Programmable speed switch



Leine & Linde's programmable Overspeed is a speed detection system that can be integrated in an encoder or a gateway together with a separate input from an incremental encoder. It features four different relay switches which can be manually programmed for optional switching speeds. One relay can be set to detect any functional error in the overspeed unit.

The speed monitor is a supplement to incremental encoders and used in applications where secure speed feedback is critical in order to protect motors and machinery from risk or failure. The encoder signal is supplemented with up to four relay outputs which open in event of overspeed, and one relay which opens in the event of a functional error. As the criteria speed can vary for different applications, the programming option offers considerable flexibility – a standard device can be supplied for different applications and programmed with the unique levels that apply to each installation. The functionality is now available integrated in Leine & Linde's 800 and 1000 series' encoders, and as a separate gateway to which an arbitrary incremental encoder can be connected. Programming is carried out via USB and PC-software.

The 800 series encoders are extremely robust and come in various mechanical solutions, with hollow shaft or solid shaft. When the programmable overspeed is integrated into the encoder, it is accessed by a mini-USB through an opening in the rear cover, which makes configuration easy – both before and after installation of the encoder.

The 1000 series is designed to meet exceptional requirements in real heavy duty applications. With sturdy bearings and enclosure the 1000 series encoders achieve extraordinary durability towards mechanical stress, shock and vibrations as well as dusty environments with high temperatures.

The gateway concept has the advantage of allowing for use of small and very robust incremental encoders in applications where space or operating conditions set the limits. The programmable overspeed encoder gateway works with most of Leine & Linde's incremental encoders, but it is typically combined with an encoder that provides two separate outputs – one for feedback to the motor drive system, and the other connected to the gateway itself to control whether speed reaches the critical levels.

LEINE & LINDE

Leine & Linde AB T +46-(0)152-265 00 F +46-(0)152-265 05 info@leinelinde.com www.leinelinde.com



Automation and Metrology International, LLC
8808 Tyler Blvd, Mentor, OH 44060

1-888-354-2525 | sales@auto-met.com

Request a quote: auto-met.com

Overspeed functionality

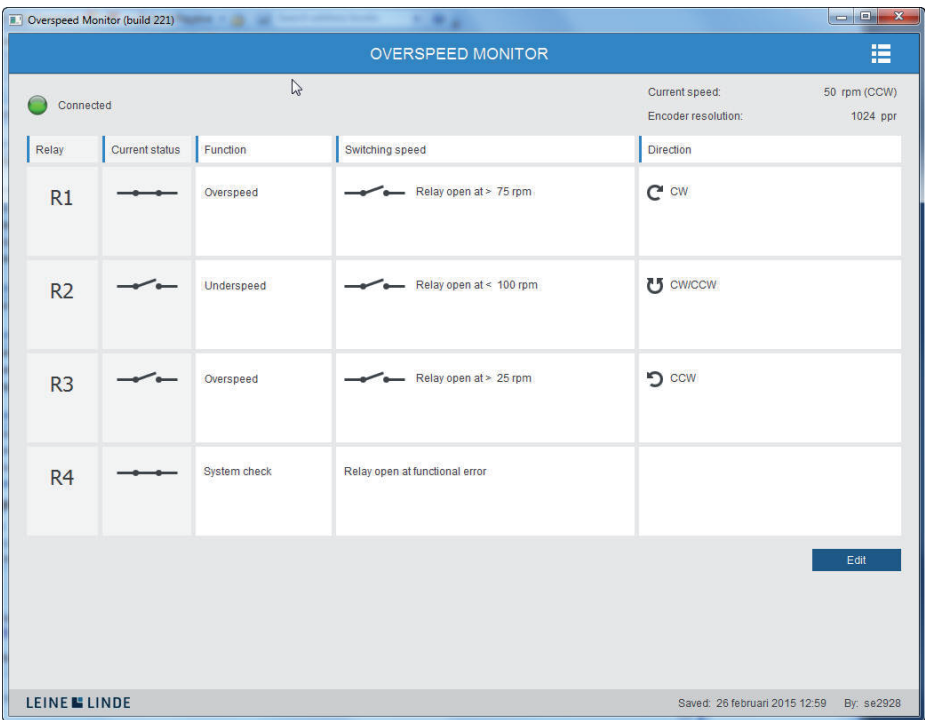
- User-friendly software
- Criteria can be set for overspeed, underspeed, standstill and direction
- Each model has programmable levels from standstill up to 6000 rpm
- Gateway can be used with any incremental encoder with 6 channel HTL/HCHTL output
- Gateway allows the operation of encoder in high temperature and harsh environmental conditions

Technical data

	800 series	1000 series	Gateway
Solid shaft / hollow shaft	Yes / yes	Yes / no	n/a
Power supply	9-30 Vdc	9-30 Vdc	9-30 Vdc
Operating temperature	-40°C...+85°C	-40°C...+85°C	-20°C...+85°C
Vibration [IEC 60068-2-6]	200 m/s ²	300 m/s ²	100 m/s ²
Shock [IEC 60068-2-27]	1500 m/s ²	2000 m/s ²	n/a
Shaft load axial / radial	100 N / 300 N	1000 N / 680 N	n/a
Ingress protection	IP67 / IP66	IP67	IP65
Switching speed range	0-6000 rpm	0-6000 rpm	0-6000 rpm
Number of switching speeds	4	4	4

PC-software

System requirements: Windows® XP, Vista, 7 or 8.



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Automation and
Metrology International,
LLC
1-888-354-2525
auto-met.com