SAFEMASTER S



Speed and frequency monitor UH 6937 -Safe, sensorless drive monitoring

With the **speed and frequency monitor UH 6937** from the **SAFEMASTER S** Series, DOLD offers an efficient, economic solution for safe, sensorless drive monitoring. Monitoring the output frequency of traction converters is just one of the many different ways to use this component. In case of over- or underfrequency, violation of the set window range or wrong direction of rotation the frequency monitor shuts off safely, proving its benefit over frequency converters with integrated safety functions in any application where simplicity, flexibility, and safety are required.

As an additional protective measure, the device can be adapted to an application by pressing just a few buttons. With the appropriate wiring, the device can offer the safety functions STO (safe torque off), SOS (safe operation stop), SLS (safely limited speed), SSM (safe speed monitoring), SSR (safe speed range) and SDI (safe direction) in accordance with EN 61800-5-2.

With the help of ergonomically shaped buttons on the front, and a lit LCD display, you can quickly and easily access parameters relevant for the application, such as monitoring functions, delay times, and frequency ranges for up to four operating modes – all without a PC.

Your advantages

- Direction of rotation monitoring up to PL d / Cat. 2 or SIL 2 while retaining PL e / Cat. 4 or SIL 3 for frequency monitoring
- Simple, time-saving start-up without a PC
- Sensorless and easy to upgrade
- Comprehensive diagnostic function
- Bypass option for frequency monitoring (Muting)
- Up to 4 operating modes can be activated (e.g. automatic, set-up, or service mode)
- Monitoring of over-, underfrequency, window range and direction of rotation
- For frequencies up to 1200 Hz and voltages up to AC 690 V

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Technical features	 Frequency monitoring corresponds: PL e / Cat. 4 acc. to EN ISO 13849-1 SIL 3 acc. to EN 61508 and EN 61800-5-2 For frequency monitoring applications up to SIL 3 acc. to EN IEC 62061 and EN 61511 Direction of rotation monitoring corresponds: PL d / Cat. 2 acc. to EN ISO 13849-1 SIL 2 acc. to EN 61508 and EN 61800-5-2 For rotational direction monitoring applications up to SIL 2 acc. to EN 61508 and EN 61800-5-2 For rotational direction monitoring applications up to SIL 2 acc. to EN IEC 62061 and EN 61511 Over-, underfrequency or window monitoring of single or 3-phase in AC systems Direction of rotation monitoring with 3-phase AC voltage User-friendly frontside display: for comfortably setting parameters through menus for target and actual value displays in Hz Quick response time using cycle duration measurements of input frequency Adjustable hysteresis Adjustable release delay of 0 100 s Adjustable alarm delay of 0.1 100 s Manual or auto-reset Galvanic separation of measuring input, auxiliary voltage, and output contacts 	<image/> <text><text></text></text>
	 2-channel design 	Safety functions acc. to IEC 61800-5-2
	 Positively driven output contacts LED display and 2 semiconductor signal outputs Optional analogue output and selection from up to 4 frequency modes 45 mm construction width 	Safe Direction (SDI)
Order information	Standard type: UH 6937.02PS/61 DC 24 V Item number: 0066820	Safe Operating Stop (SOS)
Fields of application	 Safe, sensorless drive monitoring Monitoring the output frequency of frequency converters Stage engineering Woodworking Machine tools 	Safe Speed Range (SSR)
	 Wind energy systems Crane systems L1, L2, L3 	Safely Limited Speed (SLS)
		Safe Torque Off (STO)
	Safe sensorless drive monitoring using monitoring of the converter's output frequency.	Safe Speed Monitor (SSM)
Further information		DOLD 🕸
UH 6937	Start C Are you looking for more solutions for	
www.dold.com	speed monitoring?	E. Dold & Sonne GmbH & Co. KG Bregstraße 18 • D-78120 Furtwangen T +49 7723 654-0 • F +49 7723 654-356 Gold-relays@dold.com