

SAFEMASTER S

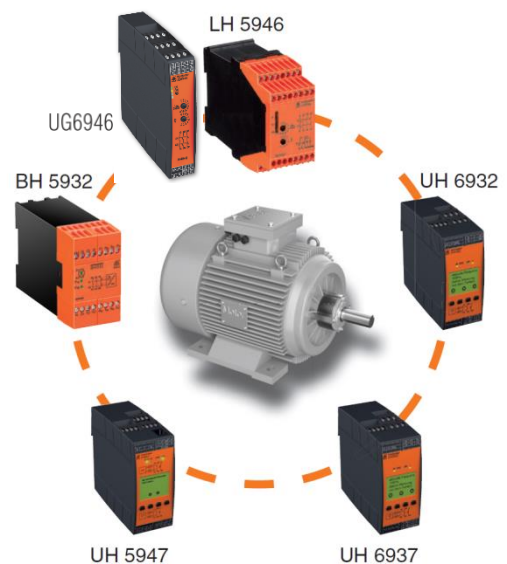
Sensorless standstill monitor UG 6946



The safe sensorless standstill monitor UG 6946 of the SAFEMASTER S series detects the standstill of 3-phase and 1-phase motors independently of the direction of rotation. Otherwise necessary sensors, such as encoders or proximity switches, are not required. Access to the hazardous area of a system is only granted by the enable signal of the standstill monitor after switching off and coasting of the drive. For the implementation of different operating modes, the standstill monitor UG 6946 also offers the possibility of bridging the standstill monitoring (muting). The configuration is protected by a sealable cover.

Applications

- ▶ Woodworking machines
- ▶ Computer tomographs
- ▶ Metalworking machines
- ▶ Window production machines
- ▶ Wire drawing machines
- ▶ Forming machines
- ▶ Cable production machines
- ▶ Sieves
- ▶ Grinding machines
- ▶ Separation technology
- ▶ Plastics processing machines
- ▶ Food production and processing
- ▶ Recycling plants
- ▶ Mixing plants
- ▶ Test stands
- ▶ Production plants at end customers (e.g. brickworks)
- ▶ Process technology
- ▶ Textile processing machinery
- ▶ Warehouse logistics
- ▶ Rides in amusement parks
- ▶ Paper processing
- ▶ Conveying technology
- ▶ Building materials industry
- ▶ Packaging technology
- ▶ Special machine construction and more ...



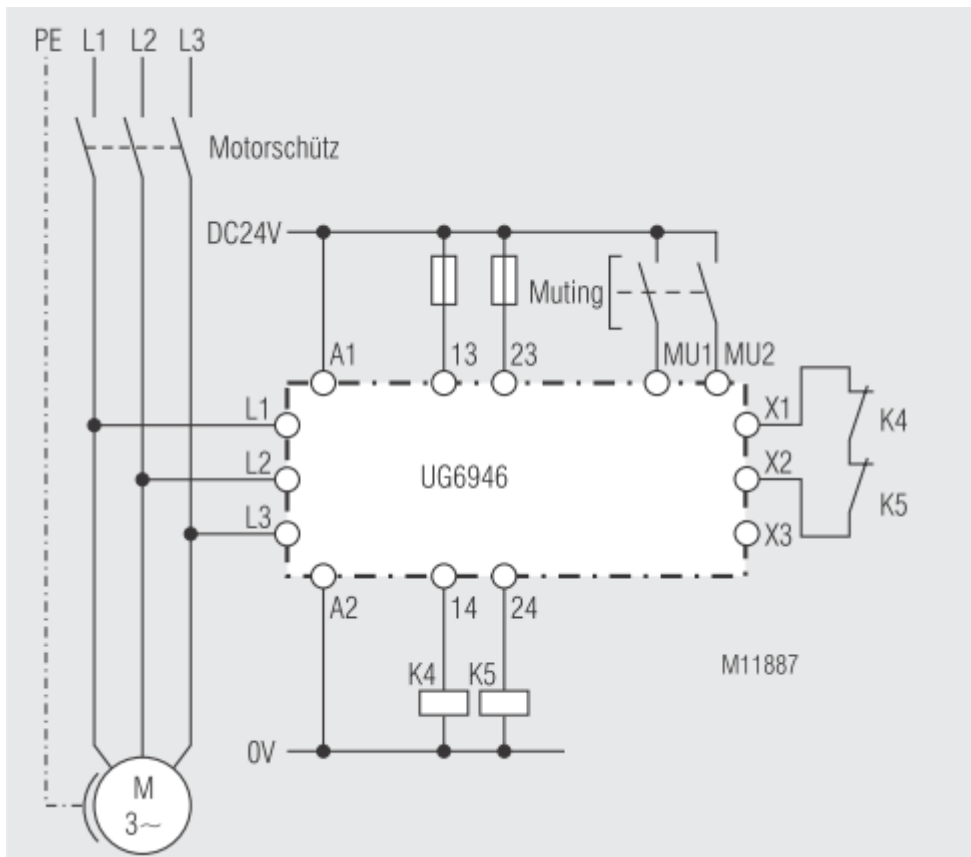
The SAFEMASTER S family – solutions for safe drive monitoring

SAFEMASTER S

Sensorless standstill monitor UG 6946

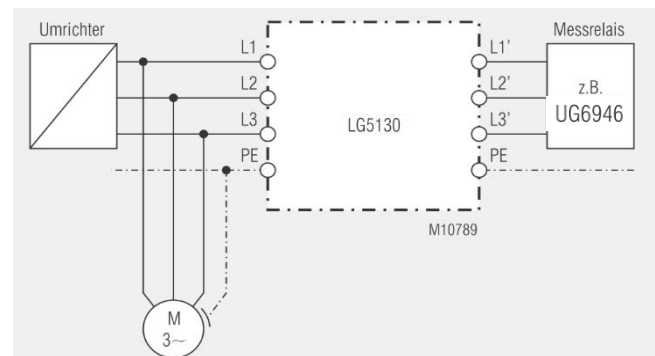
Application example

The standstill monitor is coupled to the motor-controlling circuit and measures the voltage induced by residual magnetisation at the terminals of the motor winding. If the motor is stopped, the device switches the release active (standstill detected) when the voltage falls below the set threshold (depending on the application and motor) after the safety time has elapsed.



USPs

- ▶ Continuous adjustability of the response threshold
- ▶ 2 monitoring ranges: up to 400 mV, up to 4V (depending on unit version)
- ▶ 2 safety circuits (redundant NO contacts)
- ▶ Narrow design
- ▶ Safety applications up to Cat. 4, PL e, SIL 3
- ▶ Now also with optional muting function
- ▶ Optional noise filter available (LG5130)



SAFEMASTER S

Sensorless standstill monitor UG 6946

Customer benefits

- ▶ Increase productivity due to fast detection of standstill
- ▶ Increase safety even without constructive intervention (no proximity switches necessary)
- ▶ Ideal for retrofitting of existing systems
- ▶ Cost-effective concepts can be realised (e.g. guard door release)
- ▶ Suitable for use with frequency converters

Prices

- ▶ List prices DOLD:
0068412 UG6946.02PS 400mV UH=DC24V
0068413 UG6946.02PS 4V UH=DC24V
449,- EUR

with muting
0068410 UG6946.02PS/001 400mV UH=DC24V
0068411 UG6946.02PS/001 4V UH=DC24V
499,- EUR

Competitive comparison

You will find the competitive comparison in the attachment

Further information

- ▶ Advantages DOLD:
2 safety circuits (redundant NO contacts)
Adjustable without thresholds
Optional muting input
- ▶ Descriptions of applications can be found in our customer portal at www.dold.com (see UG6946 and LH5946)
- ▶ Please also note other devices in our SAFEMASTER S series of standstill and speed monitors.

- ▶ Please find the data sheet in the attachment

Attachment: Competitive comparison, Datasheet UG6946