



## SAFEMASTER S

**DOLD** 

### Safe speed monitor UH 5947 - Comfort in safety that will convince you

Based on the new machine directive new requirements for drive monitoring have been established: The status of standstill, when stopping a motor must be monitored and maintained in a safe way. DOLD offers already possibilities for safety drive monitoring. With LH 5946 drives can be monitored sensorless and safe.

The new **safe speed monitor UH 5947** monitors speed and standstill in automatic and set up operation in a safe way. In addition the UH 5947 includes a safe gate monitoring function. The comfortable design with LCD display and front push buttons allows easy handling and programming of the unit without PC. The safe speed monitor therefore provides better productivity and safety to the operator by its combination of speed and standstill monitoring.

#### Your advantages

- ▶ Three in one
  - safe speed monitoring in automatic and set up operation
  - safe standstill monitoring
  - safe integrated gate monitoring
- ▶ For safety applications up to PL e / Cat 4 and SIL 3
- ▶ Space and costsaving, no external safe gate monitoring required
- ▶ Simple and time saving setup without PC
- ▶ Comfortable, menu guided configuration via frontside display
- ▶ Reducing interruption time in production by extensive diagnostic functions
- ▶ Easy to integrate in existing drive applications
- ▶ Suitable for all common motor feedback systems and proximity sensors
- ▶ Copy parameter settings in other units by pressing only a push button

**Our experience. Your safety.**

# Safe speed monitor UH 5947

## Technical features

- ▶ Functions as e.g. standstill are free programmable
- ▶ Setting via menu guided display or RJ45 with connection cable
- ▶ Selection of PNP or NPN proximity sensors
- ▶ Integrated display shows limit values, parameters and actual speed
- ▶ Connection of different encoders is possible (sin/cos, TTL, HTL, etc)
- ▶ 1- or 2-channel gate monitoring
- ▶ 2 transistor outputs for signalling
- ▶ Approvals: TÜV, UL, CCC

### Safety related data

PL e / Cat.4 according to DIN EN ISO 13849-1  
 SIL CL 3 according to EN 62061  
 SIL 3 according to IEC EN 61508

### Dimensions in mm (H x B x T)

90 x 45 x 121

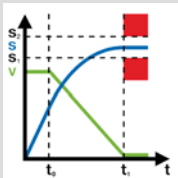


Safe speed monitor  
UH 5947

## Order information

Standard type: UH5947.04 PS/6I DC 24V  
 Article number: 0063476

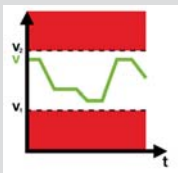
## Functions



### Safety functions according to IEC 61800-5-2

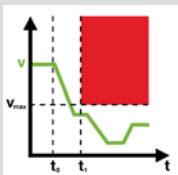
#### Safe Operating Stop (SOS)

The SOS function stops the motor from deviating by more than a set amount from the stop position. The PDS(SR) provides the motor the energy that keeps it from being affected by external forces.



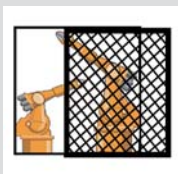
#### Safe Speed Range (SSR)

The SSR function keeps the motor speed within determined limit values.



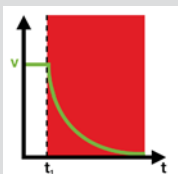
#### Safely Limited Speed (SLS)

The SLS function stops the motor from exceeding the determined limit speed.



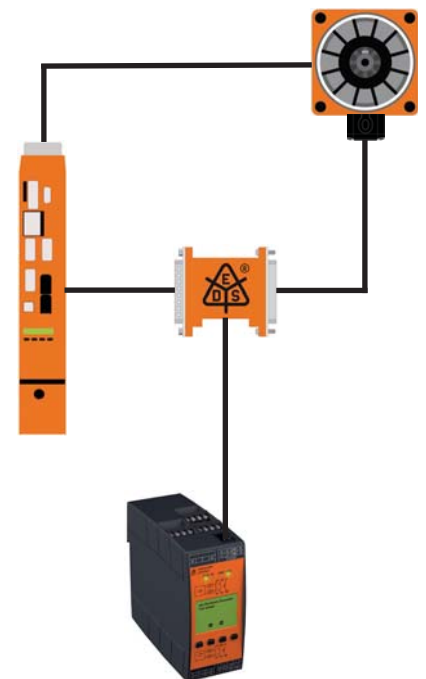
#### Safe Door Locking (SDL)

Only when all drives of a protected area are in safe state, the solenoid door lock (SAFEMASTER STS) is released.



#### Safe Torque Off (STO)

No energy is delivered to the motor that could cause it to turn (or move, with a linear motor). The PDS(SR) delivers no energy to the motor that could create torque (or force, with a linear motor).



Easy and time saving setup without PC

## Further information

UH 5947

Start

www.dold.com

**DOLD**

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