# Dold UH6932 Speed Monitor Relays DOLD &







UH6932 speed monitoring safety relay modules use inputs from proximity sensors that are detecting rotating targets on the motor that needs monitoring.

- Two PNP or NPN sensors
- · Adjustable range
- Monitors rotation and linear movement
- LED status indicators
- Time delay settings available

Safety Data – Values per EN ISO 13849-1					
Category	4				
Performance level	е				
MTTF <sub>d</sub>	146.1 years				
DC <sub>avg</sub>	99%				
Safety Data – Values per IEC/EN	62061/IEC/EN 61508				
SIL CL	3				
SIL	3				
HFT (Hardware Failure Tolerance)	1				
DC <sub>avg</sub>	99%				
PFH <sub>D</sub>	1.8e-10				

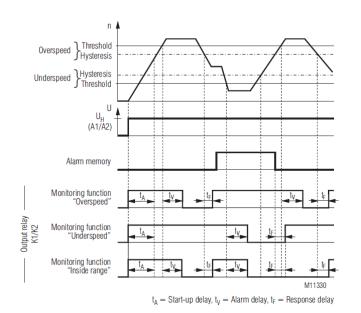
Safety Speed Monitor Relays Selection Chart						
Part Number	Price	Marking Type	Voltage	Sensor Input	Outputs	
UH6932-02PS-24	\$569.00	Digital annual manitoring aufaty relay module	24VDC	NPN	2 N.O. and 1 N.C.	
UH6932-02PS-010-24	\$569.00	Digital speed-monitoring safety relay module	24VDC	PNP	Z IN.O. AIIQ T IN.O.	

Safety Speed Monitor Relay Module Specification Table					
General Specifications					
Temperature	Storage: -20°C to 70°C (-4°F to 158°F) – Operating: -20°C to 60°C (-4°F to 140°F)				
Altitude	< 2,000m (6562ft)				
Vibration Resistance	IEC/EN 60-068-2-6				
Degree of Protection	Housing: IP40; Terminals IP20				
Housing	UL 94V-0 Thermoplastic; DIN mount 35mm (1.38 in) x 7.5 mm (0.30 in)				
Weight	320g (11.29 oz.)				
Agency Approvals and Standards	cULus file E107778, CE, RoHS				
Terminal Designation	EN 50005				
Wire Fixing	Captive slotted screw. Torque 0.8 Nm (7 lb-in)				
Input Specifications					
Nominal Voltage	24VDC				
Voltage Range	0.8 to 1.1 VDC				
Nominal Consumption	Typ 3.2 W				
Nominal Frequency	-				
Control Current	Maximum 30mA				
Overvoltage Protection	Internal VDR (Voltage Dependent Resistor)				
Sensor Inputs	Output: PNP or NPN HIGH-level: 10 - 26.4 VDC LOW-level: < 2VDC Min. pulse duration (e.g. on and off time): 75µs Input frequency: < 3kHz				
Output Specifications					
Electrical Contact Life	To AC15 at 3A, 230V: 2.2x10 <sup>5</sup> switching cycles IEC/EN 60 947-5-1				
Mechanical Life	20x10 <sup>6</sup> switching cycles				
Contact Type	2 N.O. positively driven and 2 semiconductor monitoring outputs				
Reaction Time of Frequency Monitoring	Duration of 1 cycle (inverse value of adjusted frequency) + 10ms + adjusted response delay				
Nominal Output Voltage	250VAC				
Thermal Current (I <sub>th</sub> )	Max. 8A per contact. See continuous current limit curve in installation manual.				
Short Circuit Strength	Max fuse rating: 10A gl (IEC/EN 60 9470-5-1)				
Switching Capacity IEC/EN 60 947-5-1	AC15: 3A/230V; DC13: 2A/24V				
Switching Frequency	Max. 1,200 switching cycles/hr				

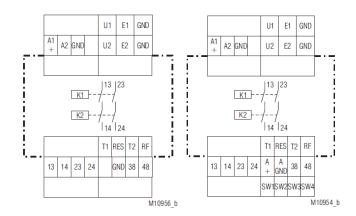
## **Dold UH6932 Speed Monitor Relays**



### **Function Diagram**

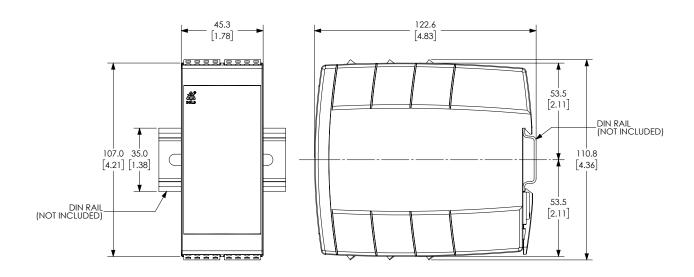


### **Block Diagram**



#### **Dimensions**

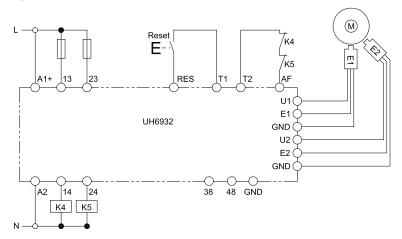
mm [in]



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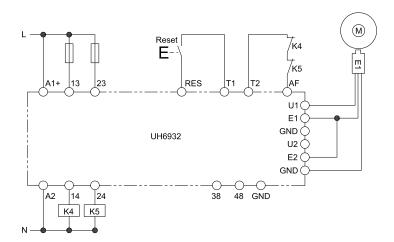


### **Application Examples**



#### Standard connection

Suited up to SIL3, Performance Level e, Cat.4



#### Connection with a proximity sensor

Suited up to SIL2, Performance Level c, Cat.2

(To achieve Cat. 2, the safety function has to be tested on a regular basis.)

## **Safety Products**



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