## 1-800-633-0405 Dold UH6932 Speed Monitor Relays DOLD 爺



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%         |  |  |  |  |
| PFHD   | 1.8e-10     |  |  |  |  |

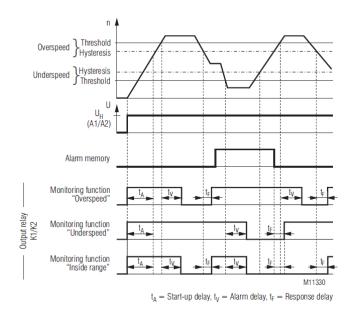
| Safety Speed Monitor Relays Selection Chart |          |  |         |              |                   |  |
|---|----------|--|---------|--------------|-------------------|--|
| Part Number                                 | Price    | Marking Type                                 | Voltage | Sensor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

| 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                                   | Тур 3.2 W   |  |  |  |  |
| Nominal Frequency                                     | -   |  |  |  |  |
| Control Current                                       | Maximum 30mA  |  |  |  |  |
| Overvoltage Protection                                | Internal VDR (Voltage Dependent Resistor)   |  |  |  |  |
| Sensor Inputs   | Output: PNP or NPN<br>HIGH-level: 10 - 26.4 VDC<br>LOW-level: < 2VDC<br>Min. pulse duration (e.g. on and off time): 75µs<br>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  |  |  |  |  |

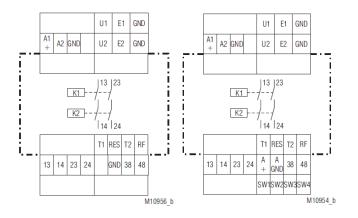
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## **Function Diagram**

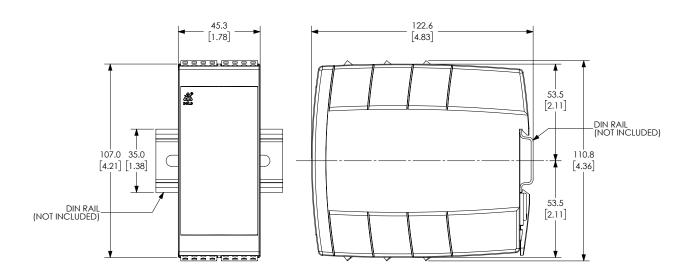


### **Block Diagram**



### Dimensions

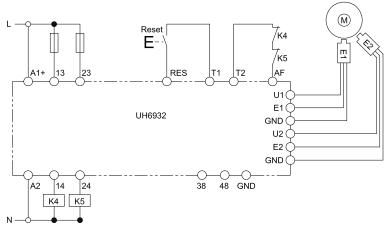
mm [in]



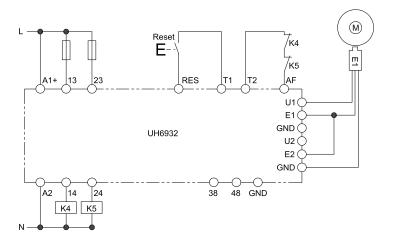
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## **Application Examples**



#### **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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