



SPINN/D

Rotation sentinel for heat exchangers

SPINN/D is an electronic rotation sentinel intended for supervision of rotary heat exchangers in air handling systems. The rotation sentinel will give an alarm at an unplanned stop of the heat exchanger wheel.

- ✓ Functional indicators
- ✓ 230 V AC supply voltage
- ✓ Logic function for alarm blocking during intentional stops
- ✓ Easy to install and commission
- ✓ Switch for test mode
- ✓ Compact design for DIN-rail mounting with all settings accessible on the front

SPINN/D is an electronic rotation sentinel, primarily intended for supervision of rotary heat exchangers. The unit has a change-over relay alarm output and a function for alarm blocking at intentional stops.

Sensor

The rotation sentinel is connected to sensor RR-G3 which gives a pulse signal when it is passed by a magnet. The magnet is mounted on the circumferential surface of the heat exchanger wheel. The RR-G3 sensor is to be mounted directly in line with the magnet with an air gap of no more to 10 mm.

Functional indications

The green LED should be lit when the supply voltage is connected. The LED will blink for a short moment when the magnet passes the sensor, showing that SPINN/D is receiving pulse signals.

The red LED will light up when the rotation sentinel emits an alarm and the alarm relay switches to alarm mode. Normal alarm time delay is 3 minutes when SPINN/D is set to mode RUN.

Logic input

To block the alarm at a user-initiated stop, the logic input is connected to the heat exchanger control signal. When the control signal falls below 4 V, the rotation sentinel is blocked from issuing an alarm. When monitoring heat exchangers using on/off control, the logic input can also be used to block alarms when the heat-exchanger stops. In this operating mode, the logic input is connected to a potential free contact which closes when the heat exchanger stops.

Test mode

The alarm time delay can be set to 20 seconds by setting the TEST/RUN switch on the device cover to TEST mode. The function can then easily be tested simply by stopping the heat exchanger wheel while leaving the remaining control equipment in running mode. The green LED should remain lit the entire time with the rotation sentinel giving an alarm after 20 seconds. After testing has concluded, the switch should be reset to the RUN position.

Accessories

Article	Description
RR-G3	Sensor including magnet for SPINN/D rotation sentinel

Technical data

Supply voltage	230 V AC $\pm 15\%$, 50...60 Hz
Power consumption	5 VA
Ambient temperature SPINN/D RR-G3	0...50°C -20...+70°C
Storage temperature	-40...+50°C
Ambient humidity	Max 90 % RH (non-condensing)
Protection class SPINN/D RR-G3	IP20 IP65
Weight	250 g
Indication	Activated alarm relay is indicated by a red LED

Inputs

Sensor	Intended for pulse sensor RR-G3, not polarised
Logic input	0...20 V DC or phasecut. Alarms are blocked when control signal falls below 4 V.

Outputs

Alarm relay	Change-over contact 230 V, 5 A. Terminals 4-5 close on alarm.
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Settings

TEST-RUN	Changes alarm delay time. TEST = 20 sek. RUN = 3 min.
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CE

Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standards EN 60669-1 and EN 60669-2-1.

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 61000-6-1 and EN 61000-6-3.

RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring and dimensions

RR-G3	1	230V ~	Supply voltage
	2		
	3	Not used	
	4	Alarm relay, 5 A, 230 V ~	
	5		
	6		
	7	Signal neutral	Logic input
	8	0...20 V DC	
	9	Sensor	
	10		
	11	Not used	
	12	Not used	

