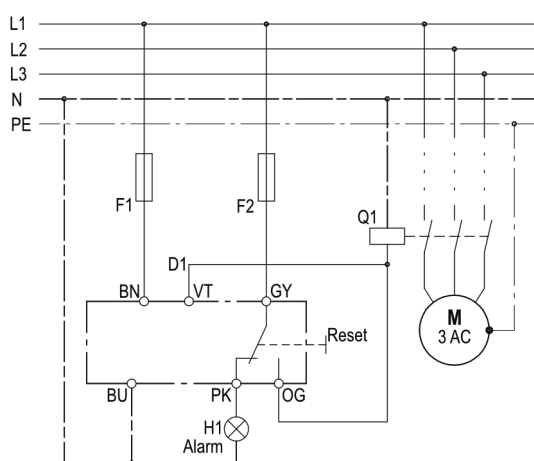


DELTA-P® II Electrical part

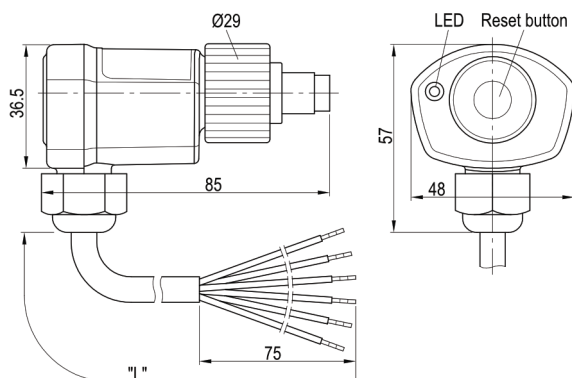


DELTA-P II

Illustration similar. Scope of delivery may deviate.



Wiring diagram



Dimensions in mm

Application

Monitoring the lubrication system is especially important in refrigerant compressors.

A very reliable method for piston compressors is the KRIWAN differential pressure monitoring.

It consists of two components: the DELTA-P II evaluation part and a separately available screw-in part.

The electronic evaluation part can be mounted or replaced without having to open the refrigeration circuit.

Functional description

The difference between high and suction pressure in the screw-in part influences a moving piston. Its position is measured and evaluated by the installed DELTA-P II evaluation part without contact.

The differential pressure monitoring is active after expiry of the start-up time after the compressor starts.

Differential pressure fluctuations are taken into account by an extension of the switch-off times (time integration). A lack of differential pressure leads to a locked switch-off.

A restart is only possible after a reset.

The potential-free contact can be looped directly into a safety chain without an additional auxiliary relay.

The integrated installation check monitors the proper installation.

An installed LED (see blink code) signals the current status.

Order data

DELTA-P II Evaluation part	22 S 630
Further product information	See www.kriwan.com

Blink code

	Differential pressure good
	Differential pressure too low
	Internal error
	Voltage supply too low or faulty installation
	Run detection on but relay off

Installation instruction

- Ensure cleanliness of the screw-in part.
- Mount the evaluation part into the screw-in part.
- The cable exit has to point downward.
- Tighten the coupling ring hand-tight.

Safety instructions

Installation, maintenance, and operation are to be carried out by an electrician. The applicable European and national standards for connecting electrical equipment must be observed.

Technical specifications

Supply voltage	AC 50/60 Hz 115-230 V -15...+10 % 3 VA
Permissible ambient temperature T_A	-30...+70 °C (UL: +65 °C)
Permissible relative humidity	10-95 % r.h. without condensation
Input, operating recognition motor	L-potential at the D1 connection (see wiring diagram)
Starting transition time	90 s \pm 5 s
Start delay	
– After supply voltage has been applied	3 s \pm 1 s
– Run detection active after	5 s \pm 2 s
– Malfunction	5 s \pm 2 s
Reset of lock	Power reset >5 s or reset by button
Relay	
– Contact	AC 240 V 2.5 A C300 Min. AC/DC 24 V 20 mA
– Mechanical service life	Approx. 1 million switching operations
Protection class according to EN 60529	IP65 in installed status
Connection type	Cable 6xAWG-18 L=1 m
Housing material	PA glass-fiber reinforced
Mounting	Coupling ring (torque max. 10 Nm)
Dimensions	See dimensions in mm
Weight	Approx. 200 g
Testing basis	EN 61000-6-2, EN 61000-6-3, EN 61010-1 Overvoltage category II Pollution level 2
Approval	UL file no. E222056 cUR _{us}

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