

# DELTA-P® II Electrical part



DELTA-P II

Illustration similar. Scope of delivery may deviate.

## 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.

## Blink code

	Differential pressure good
	Differential pressure too low
	Internal error
	Voltage supply too low or faulty installation

## Installation instruction

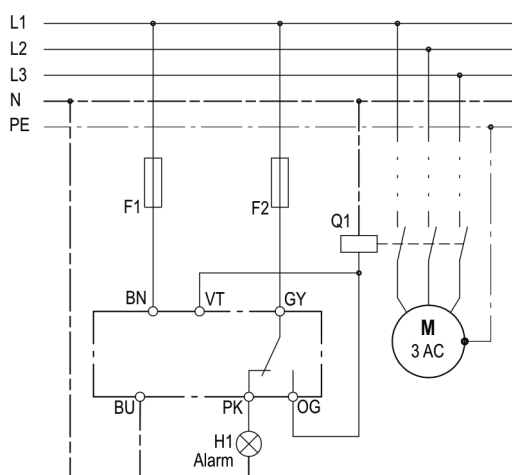
- ▶ Ensure cleanliness of the screw-in part.
- ▶ Mount the evaluation part into the screw-in part.
- The cable exit has to point downward.
- ▶ Tighten the coupling ring hand-tight.

## Safety instructions

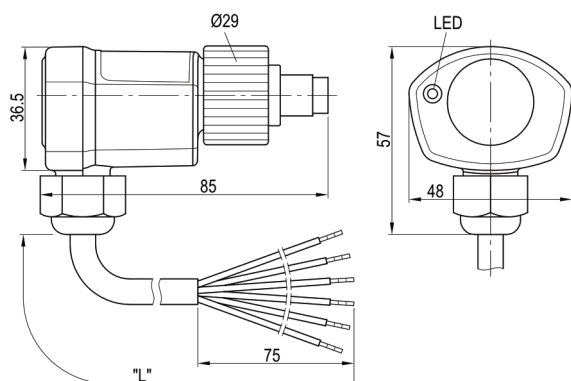
- ⚠ Installation, maintenance, and operation are to be carried out by an electrician. The applicable European and national standards for connecting electrical equipment must be observed.

## Order data

DELTA-P II Evaluation part	22 S 571
Further product information	See <a href="http://www.kriwan.com">www.kriwan.com</a>



Wiring diagram



Dimensions in mm

**Technical specifications**

Supply voltage	AC 50/60 Hz 115-230 V -15...+10 % 3 VA
Permissible ambient temperature $T_A$	-30...+70 °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
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 <sub>us</sub>

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