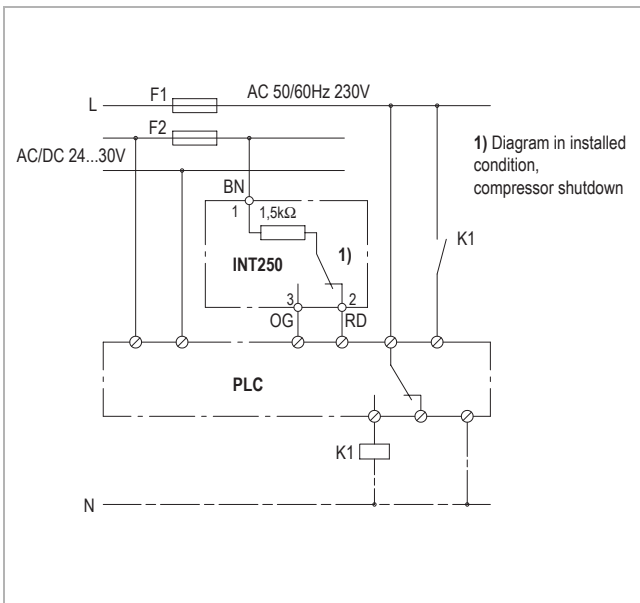


# INT250<sup>®</sup> Oil differential pressure switch

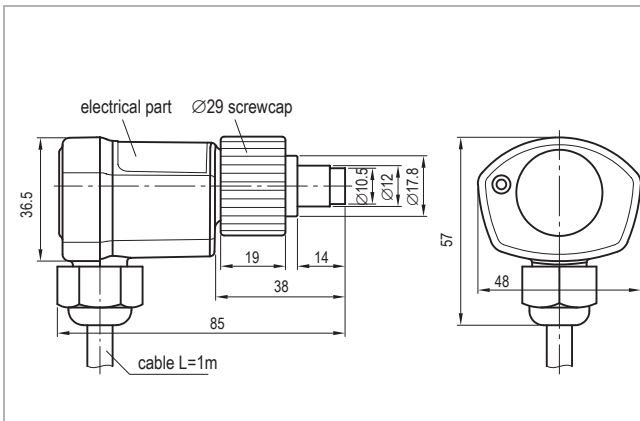
INT250<sup>®</sup>



INT250



Wiring diagram



Dimensions in mm

## Application

The INT250 serves to monitor the oil differential pressure of oil pumps in refrigeration compressors. For this a screw-in part that is mounted directly in the pump housing is evaluated for differential pressure measurement. The screw-in part is thereby connected by internal channels with the suction and high pressure side of the pump. Supplementary pipe connections are not needed. The evaluation unit is fastened by a coupling ring in the screw-in part and can be removed without opening the oil/refrigeration circuit.

## Functional description

The differential pressure sensor, which is integrated into the screw-in part, monitors the oil differential pressure for exceeding or dropping below a fixed set threshold and signals this to the switching unit as a digital signal. This signal is converted immediately into a switch position of the output contact (reed contact) and can be evaluated as a switch signal at terminal 1/2 or 1/3. Since the output contact reacts to a differential pressure change without delay, the downstream evaluation circuitry needs to contain a delay (debouncing). An operating recognition (K1) notifies the downstream evaluation circuitry when the compressor is running. The time delays that are recommended by the compressor manufacturer for the exceeding or dropping below the fixed set differential pressure limits need to be integrated into the downstream evaluation circuitry.

## Installation instructions

**Mounting:** Insert the evaluation unit in the screw-in unit and screw tight by hand with the coupling ring (torque about 10Nm). Make sure that the cable outlet points down. The electrical connection needs to be carried out according to the wiring diagram.



The unit must be connected by trained electrical personnel. All valid European and national standards for connecting electrical and cooling equipment must be observed. The oil differential pressure switch needs no maintenance. It should not be subjected to strong DC magnetic fields.

## Technical specifications

Permitted ambient temperature	-30...+90°C
Switching voltage	Max. AC 50/60Hz 30V, DC 30V
Switching current	Max. 30mA
Switching capacity	0.6VA
Mechanical service life	Approx. 10 mio. switching cycles
Protection class acc. to EN 60529	IP54
Connecting cable	3xAWG18 (0,75mm <sup>2</sup> ), L=1m colour coded lead
Max. lead length (supplied by customer)	L ≤ 30m
Weight	Approx. 80g

## Order data

INT250 Oil differential pressure switch	
• Connection components	<b>02 S 666 S21</b>

Technical changes reserved