



Oil level monitoring in refrigerant compressors without using oil pumps



By monitoring the oil levels in the stroke piston, scroll and screw compressors, the compressors and systems in refrigeration and air conditioning engineering are protected against a breakdown caused by insufficient lubrication. Compressor damages such as storage damages are prevented.

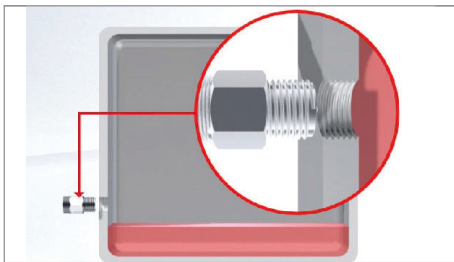


INT275L, INT276LC, INT277LA, INT278LCA

Product description

The devices of the **INT275 L – INT278 LCA** product range are optical level monitoring switches. They protect the refrigerant compressors in case of leakages, oil displacement in the refrigeration circuit or other errors. The common characteristic is the physical separation of the threaded optical assembly and the electronic evaluation assembly.

The scope of functionality of the product range comprises a variety of versions with a highly varied functional combinations, starting with the basic function (**INT275 L**) for simple level monitoring ranging up to the premium unit (**INT278 LCA**).

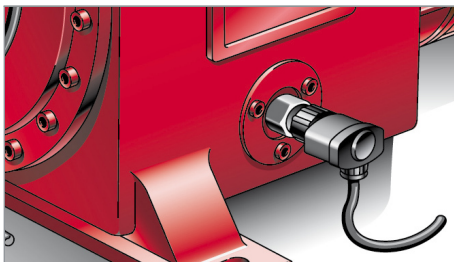


Oil level monitoring

Functionality

The optical monitoring unit is used for contactless monitoring of the liquid level. Light pulses in the device are interrupted during the transition from the solid to the liquid environment and are reflected during the transition from the solid to the gaseous environment (no oil). The relay switches off depending on the degree of reflection. The relay picks up again if the errors are rectified or if the level reaches the desired range.

The level monitoring device can be installed directly in the safety chain by connecting the sensor/evaluation/potential-free output.



built-in oil level monitoring device

Advantages

The installed, passive threaded optical assembly for level scanning and the removable evaluation assembly enable complete level control without opening the refrigeration circuit. Other advantages are:

- extremely tough, heat-resistant material
- self-cleaning
- optical status information
- complete integration of all functions, no other device required
- self monitoring of the device functions
- installation control
- close circuit principle

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