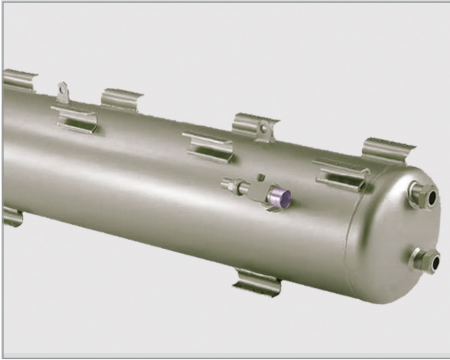




# Level monitoring in the refrigerant or oil collector



The devices of the INT275 L - INT278 LCA product range are used for early error detection by monitoring the level of the refrigerant in the cooling systems. For example, they protect the system against a breakdown caused by overheating due to insufficient refrigerant.

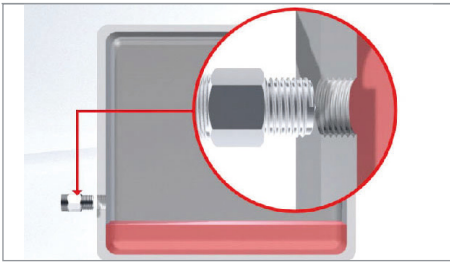


INT275L, INT276LC, INT277LA, INT278LCA

### 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 liquid). 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.



Screw-in part and electrical part

### Advantages

The installed, passive threaded optical assembly for level scanning and the removable evaluation assembly enable complete level control without the use of movable mechanical components (floating switch).

Other advantages are:

- process monitoring
- complete integration of all functions, no other device required
- self monitoring of the device functions
- installation control
- stand-alone product
- close circuit principle
- no movable mechanical parts

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