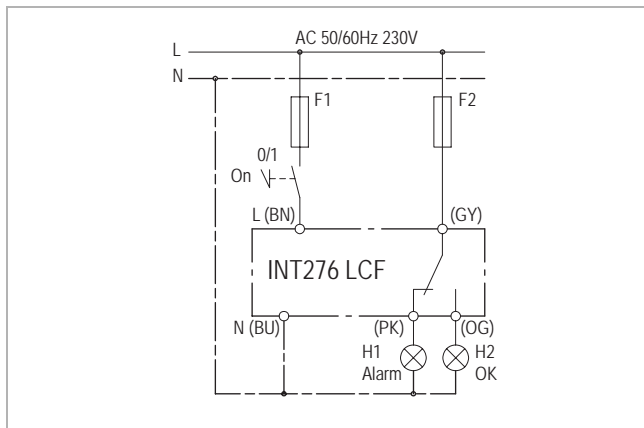


# INT276 LCF<sup>®</sup> Level monitor

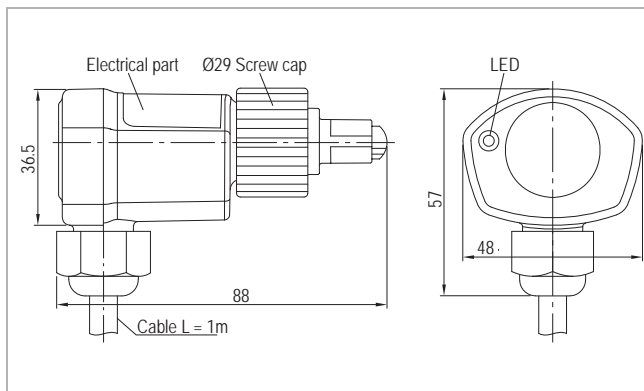
## INT276 LCF<sup>®</sup>



INT276 LCF



Wiring diagram



Dimensions in mm

### Installation instructions

**Mounting:** The maximum torque of the screw-in unit is about 75Nm and has to be ensured by a ring spanner or a socket key. The mounting for the electronics (especially the glass) needs to be checked for cleanliness. After mounting the proper sealing has to be checked. Follow the rules when working on refrigeration systems! 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 proposal in 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.

### Application

The INT276 LCF optical monitoring unit is used for contactless monitoring of the liquid level. This is accomplished by a screw-in unit installed at the measuring point for optical level scanning as well as an electronic, removable evaluation unit. The evaluation unit can be replaced without opening the reservoir of the monitored media. The relay trips 3 seconds after connecting the supply voltage. Starting from now the level is monitored. If no level is detected or if there is a fault, the relay switches off after a delay. If the fault is cleared or if the level reaches the good range, the relay picks up again after a delay. The potential-free change-over contact can be looped into a safety circuit without an auxiliary relay. The own monitoring system of the optics integrated into the INT276 LCF ensures increased operational reliability. An installation check monitors the proper assembly.

#### Flash code of the red LED:

Flashes once, break	Level good, no fault
Flashes twice, break	Internal error
	Voltage supply too low
	Not screwed into screw-in part
Flashes five times, break	Level missing

### Technical specifications

#### Screw-in unit

Exclusively applicable screw-in units, see Technical data sheet 700.00294.

#### Evaluation unit

Supply (52S...)	AC 50/60Hz 230V ±10%
Supply (41S...)	AC 50/60Hz 115V ±10%
Permitted ambient temperature	-30...+60°C
Max. media application temperature	+120°C (<1h) +100°C
Delays:	
- Relay On after applying the supply voltage	3s ±1s
- Relay off (level missing)	5s ±2s
- Relay off (error)	5s ±2s
- Relay on (level good)	5s ±2s
- Relay on (no errors)	5s ±2s
Output relay	AC 240V, 2.5A C300 >AC/DC 24V, >20mA
Mechanical service life	Approx. 10 <sup>6</sup> switching cycles
Connecting cable	5xAWG-18 cable (0.75mm <sup>2</sup> ), L=1m, colour coded
Protection class acc. to EN 60529	IP54 in built-in status
Housing material	PA66/PA6, glass-fibre-reinforced
Mounting	Union nut
Weight	Approx. 160g
Check base	EN 61000-6-2 EN 61000-6-3 EN 61010-1
Approval	UL File No. E222056

#### Order data

INT276 LCF Level monitor	
230V version	<b>52 S 476 S61</b>
115V version	<b>41 S 476 S61</b>

Technical changes reserved