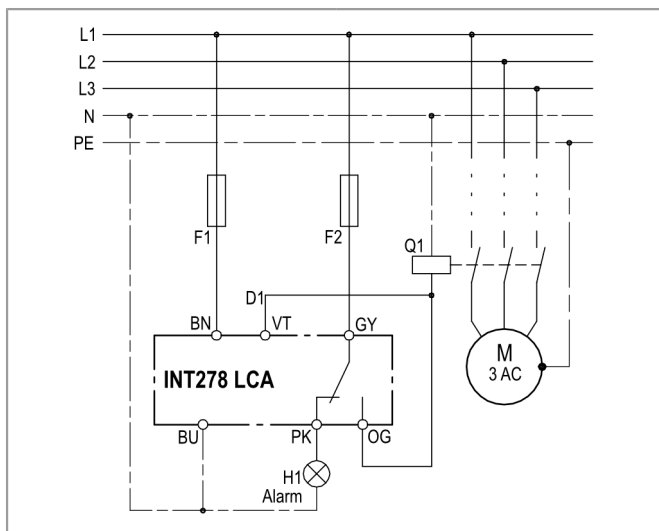


# INT<sup>®</sup>278 LCA Level monitoring

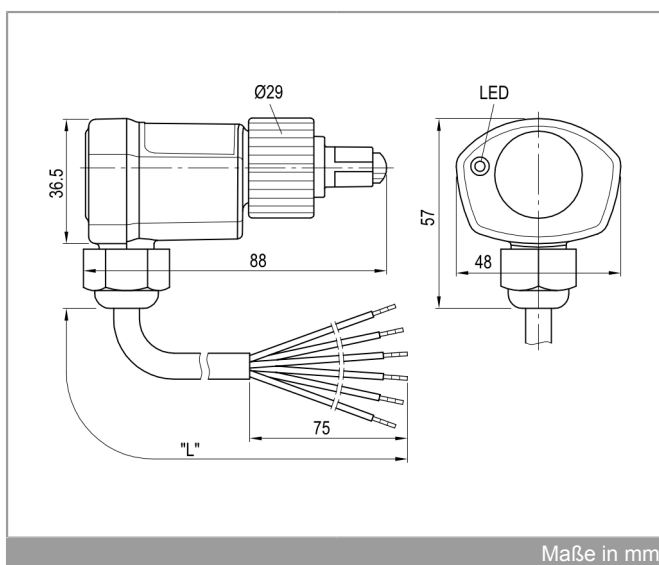


INT278

Illustration similar. Scope of delivery may deviate.



Anschluss-Schaltbild



Maße in mm

## Application

The optical level monitoring INT278 is employed for contactless single-point measurement of liquid levels, e.g. for compressors, pumps, containers, etc. The solution consists of a screw-in and an evaluation part. The screw-in part is permanently installed at the measuring point for optical level recording. The electronic evaluation part can be mounted or replaced without having to open the circuit of the medium to be monitored.

## Functional description

Light pulses of the device are refracted in fluids and reflected in gaseous environments. Thus the INT278 reliably recognizes the fluid level.

After the compressor starts, the level monitoring becomes active after expiry of the starting transition.

The reactions are time delayed, to prevent unnecessary switching in response to temporary fluctuations in the fluid.

If the level is too low or in case of a malfunction, the relay drops locked. Restart only after a reset.

The potential-free changeover contact can be looped directly into a safety chain without auxiliary relays.

An integrated self-monitoring ensures increased operational reliability; an installation check ensures the proper installation.

An installed LED (see blink code) signals the current status.

## Blink code

	Level good
	Level missing
	Internal malfunction, voltage supply too low or faulty installation

## Installation instruction

- ▶ Ensure cleanliness of thread and glass of the screw-in part.
- ▶ Mount the evaluation part into the screw-in part.
- The cable exit has to point downward.

## 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

INT278 Level monitoring	52 S 478 S75
Further product information	See <a href="http://www.kriwan.com">www.kriwan.com</a>

**Technical specifications**

Supply voltage	AC 50/60 Hz 230 V $\pm 10\%$ 3 VA
Permissible ambient temperature	-30...+60 °C
Fluid temperature	Max. +100 °C
Permissible relative humidity	10-95 % R H without condensation
Input run detection motor	Power potential at connection D1
Starting transition time	90 s $\pm 5$ s
Start delay	
– after supply voltage has been applied	3 s $\pm 1$ s
– Level is missing or error	5s $\pm 2$ s locked
Reset of lock	Power reset >3 s
Relay	
– Contact	AC 240 V 2.5 A C300 Min. AC/DC 24 V 20 mA
– Mechanical service life	approx. 1 million switching cycles
Protection class according to EN 60529	IP54 in installed status
	Cable 6 x AWG 18/7 L=1 m
Housing material	PA glass-fiber reinforced
Mounting	Coupling ring (torque max. 10 Nm)
Dimensions	See dimensions in mm
Weight	Approx. 160 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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