

INT278 LCA®

Level monitor

KRIWAN

INT278 LCA®



INT278 LCA

Application

The INT278 LCA 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 circuit of the monitored media. The relay trips 3 seconds after connecting the supply voltage. A switch-on monitoring is started for a defined time via input D1. After the end of this time, the level status is monitored. If no level is detected or if there is a fault, the relay switches

off and locks after a delay. An interruption of the supply voltage cancels the blocked state again. The potential-free, contact can be looped into a safety circuit without an auxiliary relay. The own monitoring system of the optics integrated into the INT278 LCA ensures increased operational reliability. An installation check monitors the proper assembly. The built in LED indicates the operating state and further operational statuses with flash codes as they occur:

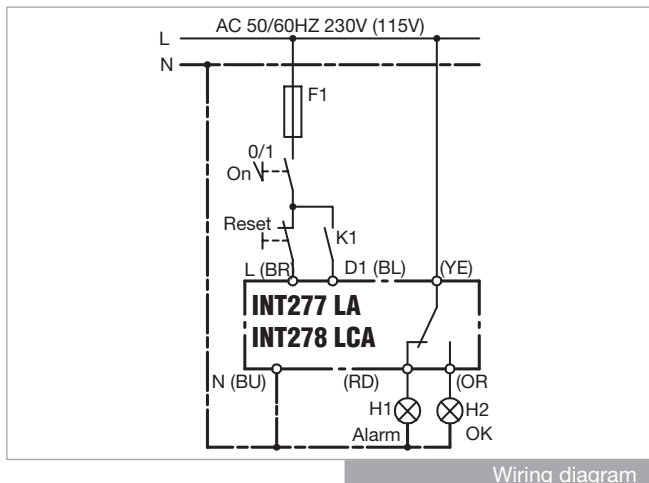
••••• OK
••••• Error
••••• Level too low

Installation instructions

Mounting:

The proper sealing at the change-over point depends on the application case and needs to be ensured by the user. The maximum torque is about 75 Nm 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.

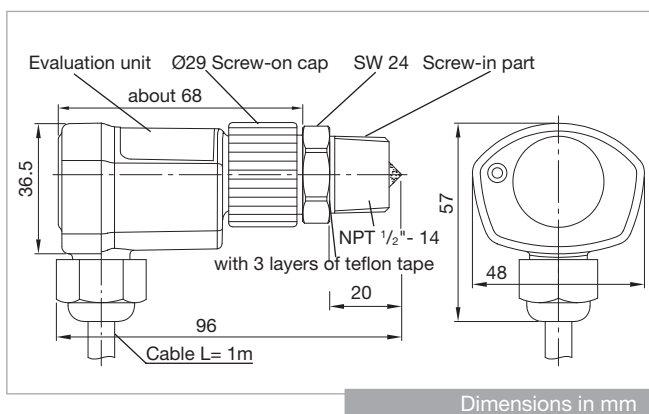
Insert the evaluation unit in the screw-in unit and screw tight by hand with the coupling ring (torque about 10 Nm). Make sure that the cable outlet points down. The electrical connection needs to be carried out according to the wiring diagram. After refilling the container, check the seal.



Wiring diagram

Technical specifications

Supply voltage (52 S...)	AC 50/60Hz 230V ±10%
Supply voltage (41 S...)	AC 50/60Hz 115V ±10%
Connection for switch-on monitoring	L-potential at connection D1
Permitted ambient temperature	-30...+60°C
Max. media temperature (< 1h)	+120°C
Max. media application temperature	+100°C
Delays:	
- Relay trips after applying the supply voltage	3s ±1s
Level monitoring after	
Switch-on monitoring (D1 active)	30s ±5s
Relay off (level missing) after	5s ±2s blocked
Relay off (error) after	5s ±2s blocked
Reset by interrupting the supply voltage	>3 s
Relay	AC 240V, 2,5A, C300
Mech. service life	Approx. 10 ⁵ switching cycles
Housing	PA66/PA6, glass-fibre-reinforced
Protection class acc. to EN 60529	IP65 in built-in status
Mounting	Coupling ring
Connecting cable	6xAWG18 (0.75mm ²) L=1m, colour coded
Weight	Approx. 80g
Approval	UL file E222056
Exclusively applicable screw-in units, see Technical data sheet 700.00294.	



Dimensions in mm

⚠ Only qualified personnel may perform the wiring. Always comply with applicable

standards for connecting electrical devices.

Order data

230V version: INT278 LCA	
Level monitor	
Evaluation unit	52 S 478 S60
115V version: INT278 LCA	
Level monitor	
Evaluation unit	41 S 478 S60

Technical changes reserved