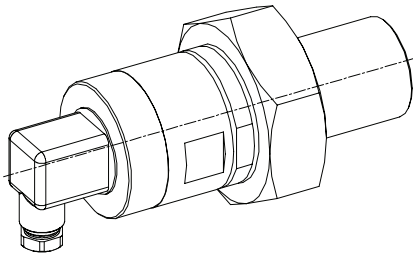


Level Control Electro-Optical Unit ROTALOCK RLK02

Main Features



The absence of mechanical moving parts ensures **High reliability**
Well consolidated steel with fused glass technology ensures **no leakage** and good chemical compatibility.
Electronic sensor **can be easily replaced** without empty and/or depressurize the plant due to the two parts design.
Extended working temperature range
No need for calibrations on the field
Customizable delays on request

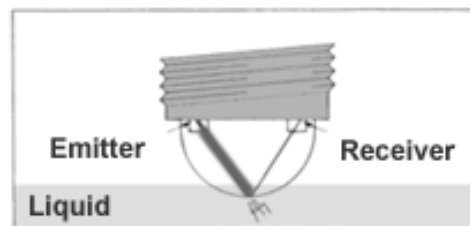
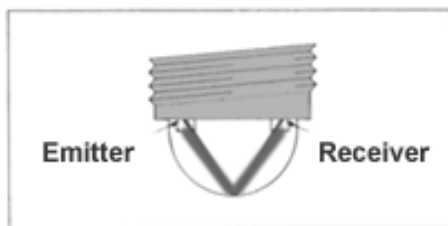
Application Description

The optical level switch has been designed for use in level monitoring applications for the control of low viscosity liquids. It comprises an optical sensor and an output switch contact. It is realized in two parts to let possible to replace the electronic without affect the plant.

It is suitable to be used both as minimum level or maximum level.

Delays can be implemented to satisfy customer needing and avoid false alarms.

Operating Principle

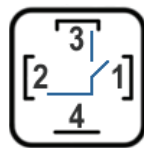


The ROTALOCK contains an infrared-ray emitter and an optical receiver. In air (liquid not present), all the light emitted is reflected - internally - by the dome and then redirected to the receiver. When the liquid reaches the sensor dome, a big amount of the light emitted is lost in the liquid and the sensor senses its presence.

Technical Data

Supply voltage (± 10%)	230VAC @50Hz/110VAC @60Hz/24 VAC @50/60Hz/24VDC depending on selected model
Electronic Protections	Over voltage protection
Electrical connection	EN 175301-803A connector (EX DIN 43650 size A)
Output signal	Solid state output Normally Open or Normally Close in air.
Output max. current	Up to 100 mA
Housing material	Nickel plated steel
Enclosure protection class	IP 65
Working Temperature range	-40°C..+125°C
Maximum Pressure	45 bar
Torque Tighten	100÷150 Nm for adapter installation on the system. Hand Screw with strength the sensor to the adapter

Electrical Connections / Wiring



- 1: Power Supply (L/+)
- 2: Power Supply (N/-)
- 3: Output
- 4: Not used

