

Optical Level Control Unit ROTALOCK RLK02



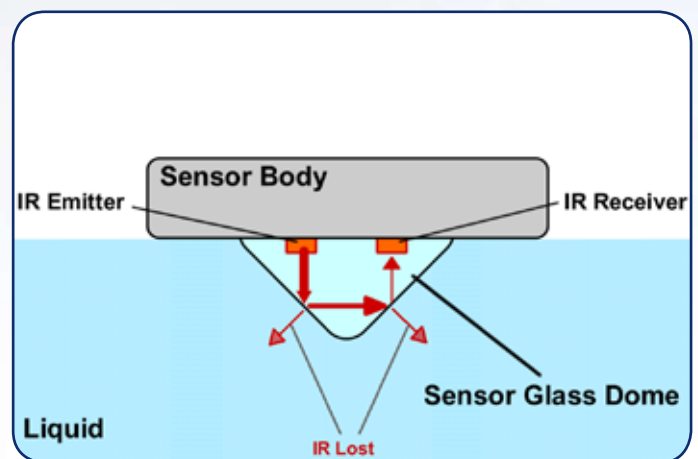
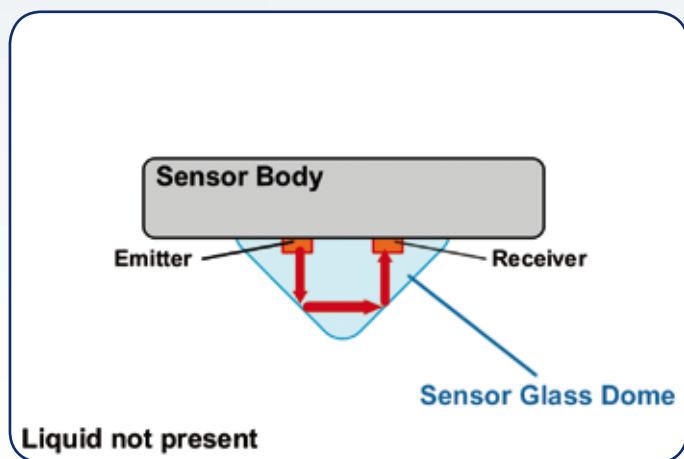
MAIN FEATURES

- 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**
- Rotalock 1" 3/4 - 12 UNF and Rotalock 2" 1/4 - 12 UNF available
- Unit conform to directives:
*2004-108-CE *CEI EN 60204-1:2006

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



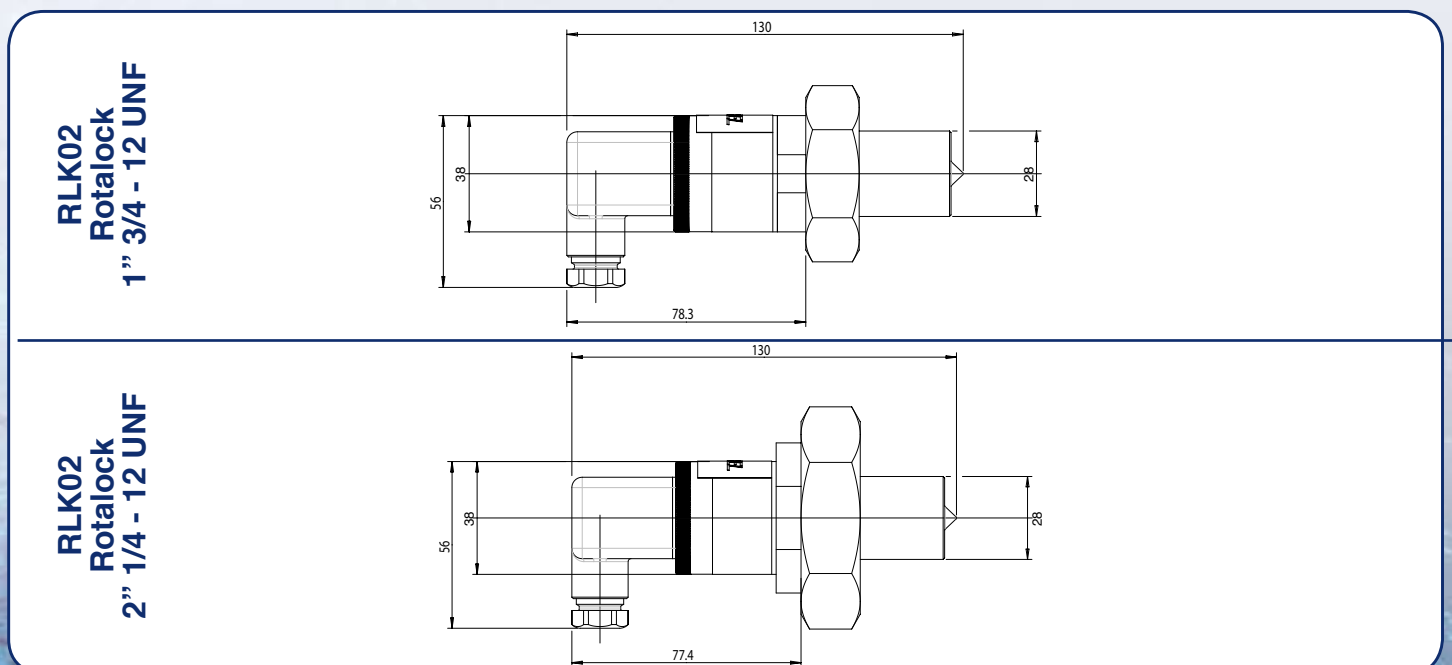
The sensors contains an infrared-ray emitter and an optical receiver. In air (liquid not present), all the light emitted is reflected - internally - by the dome and then redirected to the receiver. When the liquid reaches the sensor dome, a big amount of the light emitted is lost in the liquid and the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

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Technical Data

SUPPLY VOLTAGE ($\pm 10\%$)	230VAC@50Hz / 115VAC@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.
SUPPLY CURRENT	20mA max during normal operation
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

Mechanical Dimensions



Quotes in mm



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