

Optical Level Control Unit LC-XT



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**
- **Direct mounting** onto various types of compressors (M20x1.5 or 1"1/8 – 18 UNEF adapter) and tanks (1/2"NPT adapter)
- **Customizable delays** on request
- Unit conform to directives:
 - * 2004-108-CE
 - * CEI EN 60204-1:2006

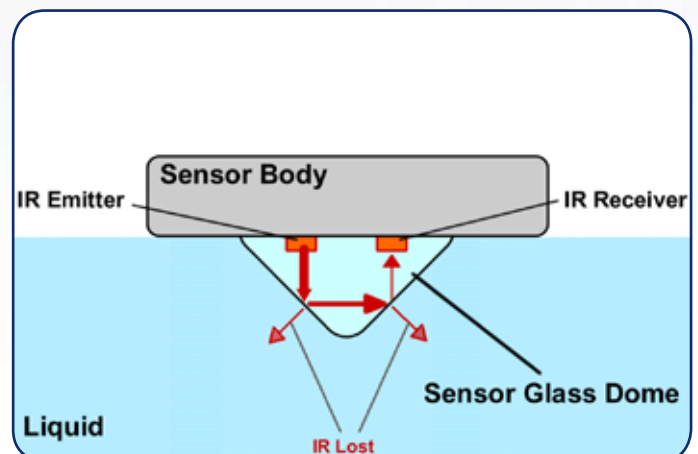
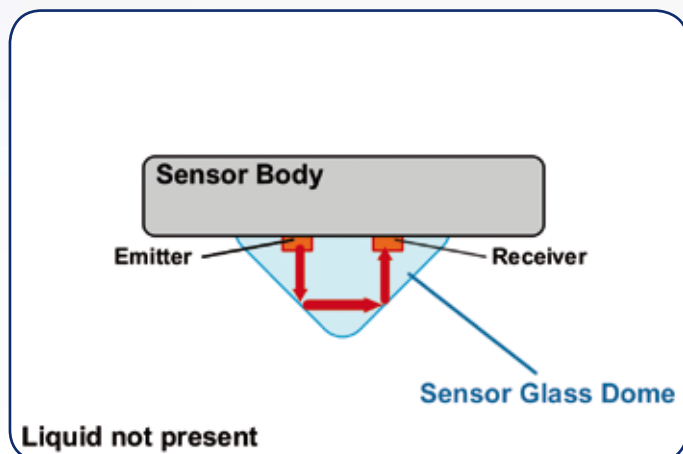
Application Description

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. It is realized in two parts to let possible to replace the electronic without the needing of empty or depressurize the plant.

The sensor is suitable as minimum or maximum alarm.

Delays can be introduced in order to satisfy particular needing or avoid false alarms.

Operating Principle



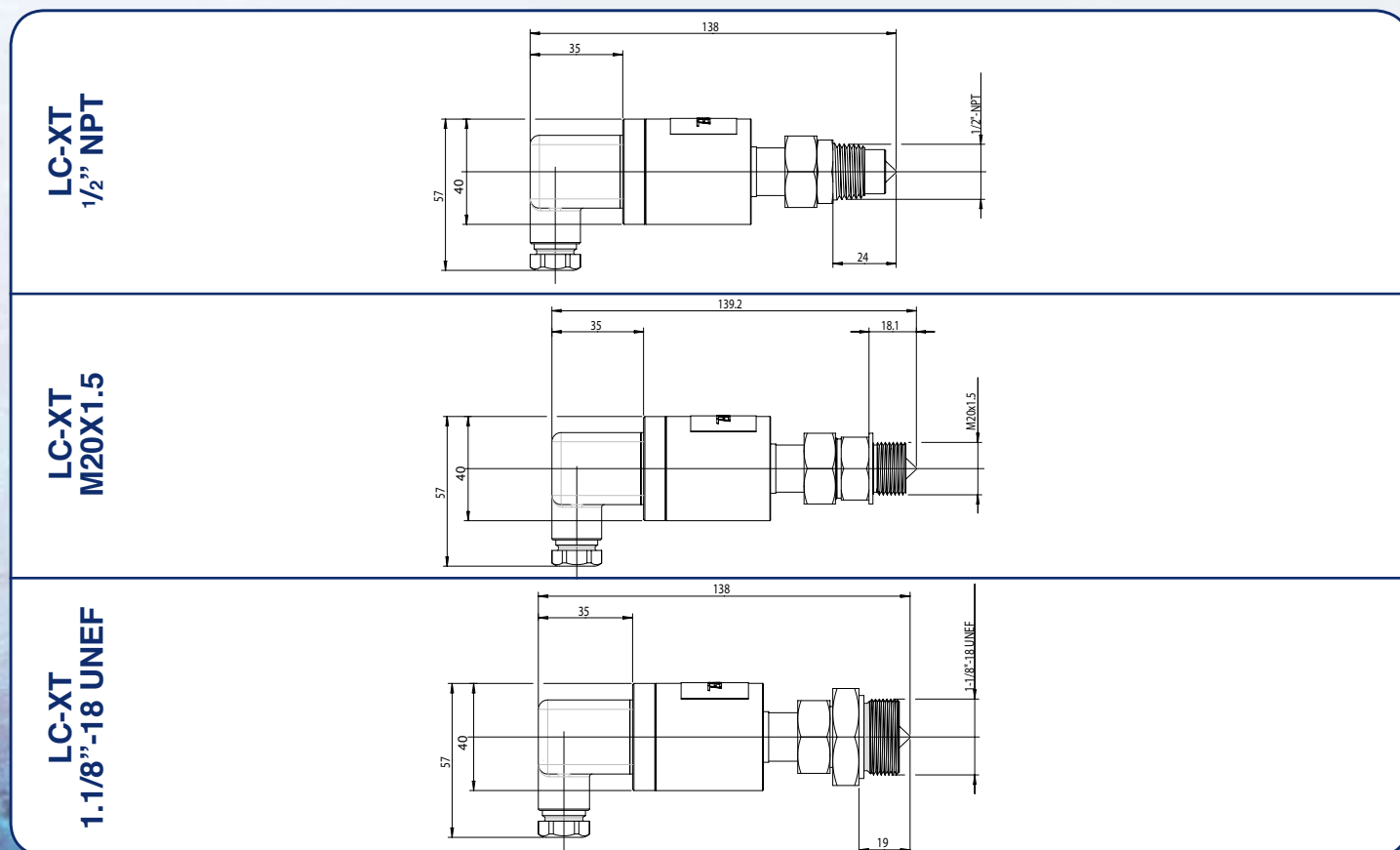
The LC units contains an infrared-ray emitter and an optical receiver. In air (liquid not present), all the light emitted is reflected - internally - by the dome and then redirected to the receiver. When the liquid reaches the sensor dome, a big amount of the light emitted is lost in the liquid and the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

Optical Level Control Unit LC-XT

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
MAX PRESSURE	45 bar (for higher pressures, please contact the supplier)
TORQUE TIGHTEN	50 Nm for adapter installation on the system. Hand Screw with strength the sensor to the adapter

Mechanical Dimensions



Quotes in mm



Via Emilia Ovest, 1179 - 41123 Modena - Italy
Tel. +39 059 375498 - Fax +39 059 376294
info@teklab.biz - www.teklab.biz