

# Installation Instructions for

# Metal Housed Industrial Optical Liquid Level Sensor Series

#### **GENERAL DESCRIPTION**

The Metal Housed Industrial Series liquid level sensor provides a single point detection via a MOSFET output.

The sensor range was designed to directly switch incandescent indicators, sounders or relays.

An infra-red LED and phototransistor accurately positioned at the base of the cone ensure good optical coupling between the two when the sensor is in air. When the sensor's cone is immersed in liquid, the infra-red light escapes from the cone causing a change in the amount of light at the phototransistor which makes the output change state. Various electrical outputs are available to suit different applications.

#### **CLEANING**

Proper fluids should be selected based on type of contamination to be removed. SST recommends freon and alcohol based solvents. DO NOT use chlorinated solvents such as tricholorethane as these are likely to attack the sensor material.

## **Liquid Media Compatibility**

Before use check that the fluid in which you wish to use these devices is compatible with polysulphone.

# **ELECTRICAL SPECIFICATIONS**

Supply voltage (Vs)	5 to 15Vdc or 10 to 28Vdc (±5%)
Supply current	15 mA nominal
Output Type	An "L" in the part number imdicates that the sensor output will go low in air. Otherwise the output will be high in air (see part numbering system).
Output sink/source current (lo)	500 mA max
Operating temperature	-40 to +125°C (extended temperature range)
Storage temperature	-40 to +125°C (extended temperature range)

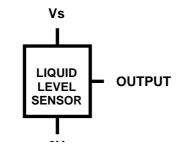


# **MOUNTING**

Housing Type	LLM610 series	LLM710 series
Thread	½" SAE with o-ring *	1/4" NPT
Pressure (using sealing washer/O-ring)	20 bar max	
Mounting hole	Ø 12.7mm	Ø 13.7mm
Housing Material	Brass	
Sensing Tip Material	Polysulphone	
Sensor Termination	20AWG, 250mm PTFE Wires, 8mm Tinned	

<sup>\*</sup> O-rings sold separately, please contact us for details.

## **Sensor Schematic**



WIRE	DESIGNATION
RED	Vs
GREEN	OUTPUT
BLUE	<b>0</b> V

传感与控制事业部

深圳市新世联科技有限公司

地址: 深圳市深圳南中路2006号华能大厦712室

电话: 0755-83680810 83680820 83680830 83680860

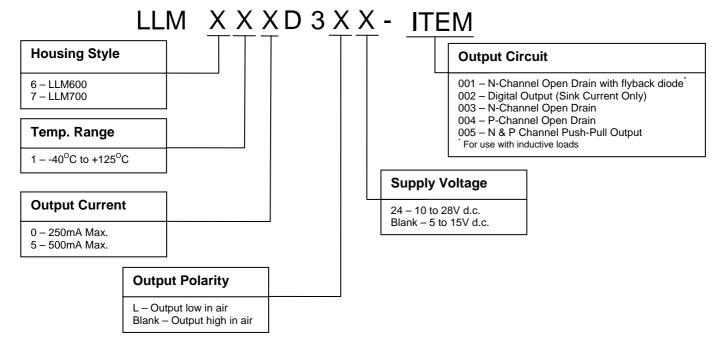
网址: www.apollounion.com

邮编: 518031

传真: 0755-83680866

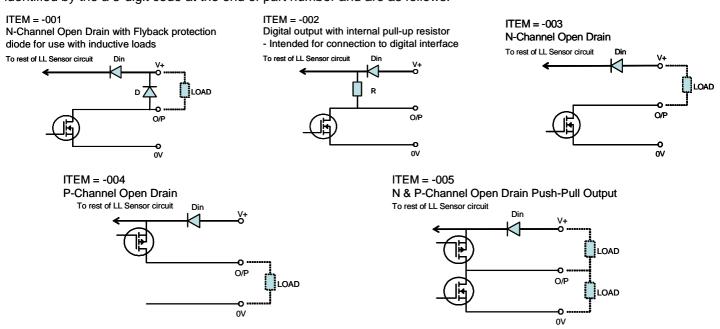
邮箱: sensor@apollounion.com

#### PART NUMBERING SYSTEM



### **OUTPUT TYPES**

In order to suit any application, these sensors have been designed with various output circuit configurations. They are identified by the a 3-digit code at the end of part number and are as follows:



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