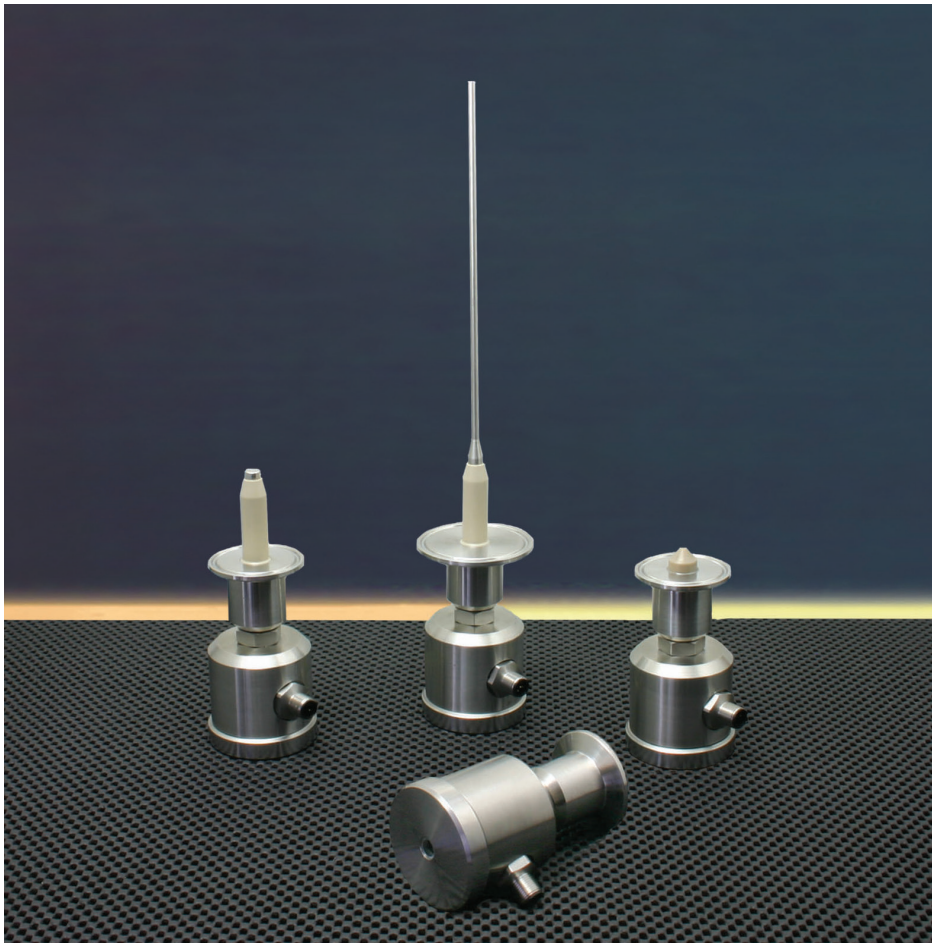
Product Information - LS **FOOD**

"LS" Capacitive Point Level Detection

Introduction

The Level Switch (LS) point level detector is designed to provide reliable point measurement in a compact sensor suitable for a broad variety of applications and installations. Particularly suited for detection of water based (>25%) liquid media in vessels or pipes, the LS excels in foamy or viscous applications. Utilizing RF capacitive technology, the LS detects changes in the dielectric constant from air to detected media. Fast reacting, the LS will detect changes in state in less than one second. Featuring a dielectric threshold adjustment, sensor sensitivity may be selected to accommodate a broad range of media while eliminating false readings. The LS is also equipped with a status LEDs and available with an optional windowed cover allowing local indication of sensor condition simplifying startup and diagnostic procedures. A simple three wire connection allows power and signal to connect directly to a PLC without the need for an external relay module. Standard Anderson quick disconnect eases installation by utilizing three conductor cable. The receptacle even maintains NEMA 4X water tight protection when disconnected. Finally the stainless steel enclosure is designed to protect from the rigors of frequent wash downs and vibration.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.



Authorizations

Features

- Conductivity independent
- Fast reaction time
- Selectable sensitivity
- Simple installation and connectivity
- 3-A compliant; Third party verified

Applications

- Level detection in vessels or pipes
- Product monitoring in pipes
- Empty vessel indication
- Pump protection
- Low conductivity fluids such as liquid sugar and Deionized water
- Foamy or Viscous media such as syrups or concentrates

Specifications

OPERATION/ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature Limits:	14 - 140°F (-10 - 60°C)
Pressure Rating:	150 PSI (10 BAR) max
Process Temperature Limits:	32 - 212°F (0 - 100°C)
CIP Cleaning:	302°F (150°C) max 60 minutes
Function:	Full/empty signal determined by wiring
Response Time:	0.1s
Minimum DielectricThreshold:	Selectable from 20-70
Enclosure Protection:	Designed and factory tested to NEMA4x, IP69K; Suitable for use in wet environments at up to 100% relative humidity.

ELECTRICAL SPECIFICATIONS

Voltage Required:	24 ⎓ (18 to 36 Vdc (≤ 20mA)
Power Consumption:	0.6 W Typ. (i.e. 25mA at 24 Vdc)
Signal Output:	PNP - Sourcing (active 50mA) Optional NPN - Sinking (max 50mA)
Signal Transmission Power:	≤ 1mw
Connection:	One 3 pin M12 Micro-mini electrical connector (QDR)

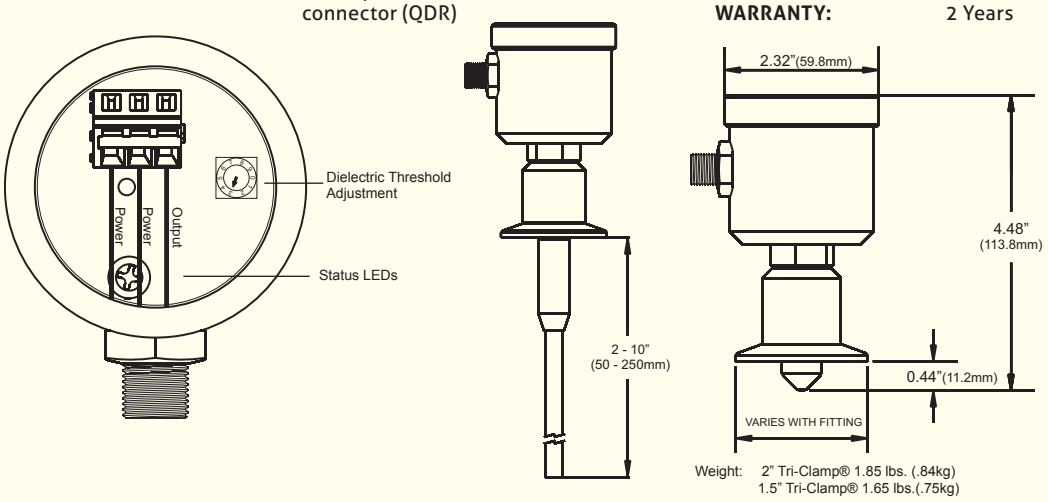
MECHANICAL SPECIFICATIONS

Wetted Materials:	316L Stainless Steel, PEEK
Wetted Finish:	Better than Ra=32
Housing Material:	300 series Stainless Steel housing, lid and threaded connection (non contact surfaces)
Enclosure Protection:	Designed and factory tested to NEMA 4x, IP69K; Suitable for use in wet environments at up to 100% relative humidity.
Agency Approval:	CE compliant; 3-A compliant, Third party verified ETL Listed Conforms to UL Std 61010-1 3rd Ed(with Display Window option "0" only) Certified to CSA Std C22.2 61010-1 3rd Ed(with Display Window option "0" only)

VISUAL INDICATION

Status LED:	Red - Probe Immersed Green - Probe Dry

WARRANTY: 2 Years



Weight: 2" Tri-Clamp® 1.85 lbs. (.84kg)
1.5" Tri-Clamp® 1.65 lbs.(.75kg)

Order Information

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OUTPUT TYPE

1	PNP - Sourcing
2	NPN - Sinking (special order)

FITTING STYLE

004	1-1/2" Tri-Clamp®
005	2" Tri-Clamp®
165	G1/2" CLEAN Adapt [1]

DISPLAY WINDOW

0	No window, Blank cover
1	Window for display and status light

SENSITIVITY

1	Standard
2	Dielectrics from 2-20(special order) Only standard and 2" probe length options available

SENSOR WIRING

00	QDR w/No FWC & no Cable	QDR - Quick Disconnect Receptacle
01	QDR w/FWC & no Cable	FWC - Field Wireable Connector
05	QDR w/25 ft 5-Conductor Molded Cordset	
10	QDR w/50 ft 5-Conductor Molded Cordset	
20	QDR w/100 ft 5-Conductor Molded Cordset	

PROBE LENGTH

000	Standard
050	2" (50mm)
100	4" (100mm)
150	6" (150mm)
200	8" (200mm)
250	10" (250mm)

Typical Configuration:

L S 1 0 0 5 1 1 0 1 0 0 0

Level Switch with PNP Sourcing Output, 2" Tri-Clamp® Process Connection, Window Display, Field Wireable Connector and Standard Probe.

[1] Meets 3-A when used with a 3-A compliant adapter