

- Mass Flow Switch for the detection of the mass flow rate of liquids and gases.
- Wide operating temperature range -100°F to +390°F (-70°C to +200°C).
- Wide flow range of .01 to 5 feet per second (fps) in oil, 2.5 fps in water and .1 to 500 fps in gases.
- Two year workmanship warranty.
- Thermal point level switch for the detection of level in all vessels.
- Free of all moving parts that can stick, coat or fail.
- Switch on level change of .03 inch without concern for changing temp, density, dielectric constant or chemical composition.
- New smaller and simpler packaging.

LS11NX & FS21NX microtuf® II

Single Channel Mass Flow & Level Switch SPECIFICATIONS

Sensor

Type:

Thermal Differential, Dual RTD Sensors

Process Connection:

Standard 0.75 inch MNPT
Optionally 0.5 inch and larger MNPT and various other process connections such as sanitary and flanges

Insertion Length:

Standard 2.0 inch
Optionally 0.5 inch or greater

Operating Temperature Range:

Standard -100°F to 390°F (-70°C to +200°C)

Materials of Construction:

Standard 316L Series Stainless Steel
Optionally Hastelloy, Monel, Inconel and other exotic materials

Operating Pressure Range:

Standard to 3000 psia (207 bar)

Electronics

Power:

Standard 90-260 VAC at 4 watts
Optionally 24 VDC at 3 watts (No heater power required)

Operating Temperature Range:

Standard -40°F to +140°F (-40°C to +60°C)
Optionally remote electronics

Outputs:

DPDT Relay contacts rated at 5 amp, 250 VAC with fail safe capability

Self-Test:

Integral and Automatic during power up

Instrument

Operating Range:

Adjustable Flow Rate (feet per second - fps), typical: 0.01 to 5.0 fps oil, 2.5 fps water and 0.1 to 500 fps gases

Response Time:

Sensor response time 0.5 to 10 seconds media dependent

Repeatability:

Flow: < .5% of set point ± 1% of span over a range of ±50° F, Level: ±1% of setpoint. Temperature compensated throughout entire range

Represented By:

Model Number Selection Guide

Code - Model

FS21NX - Non Explosion Proof Flow Switch

LS11NX - Non Explosion Proof Level Switch

Code - Process Connection

075 - 0.75 inch MNPT (std)

050 - 0.50 inch MNPT

100 - 1 inch MNPT

RA1 - Raised face flange 150 # 1 inch

RA2 - Raised face flange 150 # 2 inch

RB1 - Raised face flange 300 # 1 inch

RB2 - Raised face flange 300 # 2 inch

3A1 - 1.5 Inch Sanitary w/3A Stamp

SPL - Special

Code - Sensor Material

S6 - 316L Stainless Steel (std)

S4 - 304 Stainless Steel

SL - 304L Stainless Steel

HC - Hastelloy C

IO - Inconel 600

MN - Monel

A2 - Alloy 20

SM - Special Material

Code - Insertion Length

2.00 - 2.00 inch (std)

0.00 - Custom Length

Code - Power Input

AC - 90-260 VAC (std)

DC - 24 VDC

Code - Configuration

LE-Local Electronics(std)

RE-Remote Electronics

Code - Special Option

00 - No Special Option

CA - Additional Cable

CB - Calibration req.

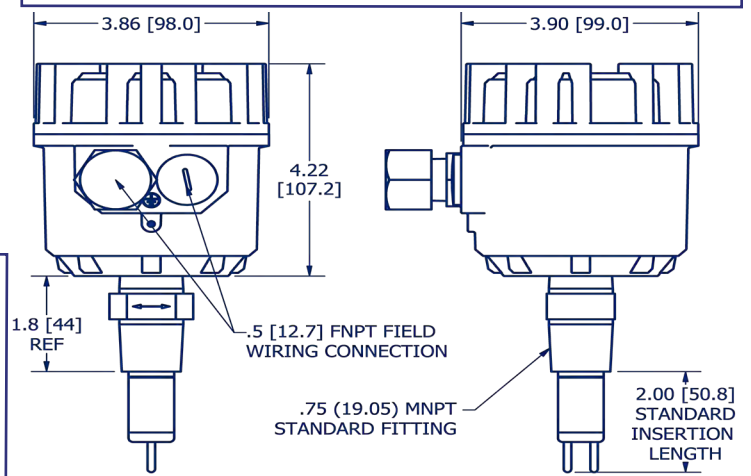
EN - Extended Neck

PC - Potted Cable

SR - Strain Relief

TE - Sensor in Tee

FS21NX-075 - S6 - 002.00 -AC- LE-00 Model Number



DIMENSIONS IN INCHES [MILLIMETERS]

Form Number (DML 1022.00)