



- Thermal point level switch for the detection of level in all vessels.
- Wide operating temperature range -100° F to +850° F (-70° C to +458° C).
- Switch on level change of .03 inch without concern for changing temperature, density, dielectric constant or chemical composition.
- Removable, plug in electronics.
- Free of all moving parts that can stick, coat, or fail.
- Fast response time of .1 to 1 second on wetting, media dependent.
- Self heating sensor design improves repeatability. No separate heater to fail or slow response time.
- Two Year Workmanship Warranty.

MODEL LS51SC

VERSA-SWITCH®

Single Channel Point 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 0.5inch or greater up to a length of 30 feet

Operating Temperature Range:

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

Medium Temperature to +572° F (+300° C)

High Temperature to +850° F (+458° 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 Field selectable 110VAC, 220VAC, or 24VDC at 3 watts (No heater power required)

Operating Temperature Range:

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

Optionally Remote electronics for use in medium and high temperature environments

Outputs:

Independent relay DPDT, contacts rated at 5 amp, 250 VAC with fail safe capability.

Self-Test:

Integral and automatic during power up.

Enclosure:

Explosion proof; NEMA 3, 4X, 7, and 9; CSA, FM, UL, CENELEC, and EECS approved

Instrument

Response Time:

Sensor response time 0.1 to 1 second on wetting, media dependent.

Response to level Change:

Will respond to a level change as small as .03 inch.

Approvals:

FM and CSA approved as a complete operating unit.

Model Number Selection Guide

Code - Model

LS51SC - Single Channel Point Level Switch

LS51NX - Single Channel Level w/o Approvals

Code - Process Connection

3A1 - 1.5 inch Sanitary w/3A Stamp

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

SPL - Special

Code - Sensor Material

S6 - 316L Stainless Steel (std)

S4 - 304 Stainless Steel

SL - 304L Stainless Steel

HB - Hastelloy B

HC - Hastelloy C

IO - Inconel 600

MN - Monel

A2 - Alloy 20

SM - Special Material

Code - Insertion Length

002.00 - 2.00 inch (std)

000.00 - 0.50" to 360.00"

Code - Power Input

FLD - Field Config. (std)

110 - 110 VAC

220 - 220 VAC

24D - 24 VDC

24A - 24 VAC (factory only)

Code - Configuration

LE-Local electronics(std)

RE-Remote electronics

Code - Special Option

00 - No Special Opt.

CB - Calibration req.

EN - Extended Neck

XW- X proof window

VI- Variable Insertion

LT - Live Tap

DS - Double Sided

MT - Medium Temp.

HT - High Temp.

RT - RTD Output

TO - Thermocouple

CA - Additional Cable

TG - Stainless Tag

LS51SC - 075 - S6 - 002.00 - 110 - LE - 00 Model Number

Form Number (DML 1006.02)