



Switching, Sensing and Control Solutions

from GENTECH INTERNATIONAL LTD

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LDS SERIES

CLOSE DIFFERENTIAL HORIZONTAL LIQUID LEVEL SENSORS



DESIGN FEATURES

- High and low level sensing
- Normally open or normally closed operation by rotating through 180°
- Externally fitted via compression grommet
- Internal fitted M16
- Close operate release differential
- Housing materials nylon 6.6 or glass filled polypropylene
- Sealing washers and materials suitable for a wide range of chemicals
- Reed switch reliability
- Temperature range up to 130°C

Operational Characteristics

Contact Configuration		SPST Reed Switch
Contact ratings maximum (resistive loads)	Volts DC	100
	Volts AC	250
	Amps	1.0
	Watts	15
Minimum withstand across open contacts	Volts	800
Initial contact resistance	Ohms	0.25

These contact ratings are for resistive loads. For inductive, capacitive and tungsten filament lamp loads refer to the circuit protection notebook.

Environmental Specifications

Housing and Float Material (a)	Operating Temperature	Minimum SG
LDS3-Glass Filled Nylon 6.6 (b)	-30° to +130°C	0.7
LDS8-Glass Filled Polypropylene (c)	-30° to +110°C	0.7

a Detailed chemical resistance information for specific liquids is available on request.

b Higher temperature models available.

c For boiling water applications the maximum operating temperature limits are:- Continuous boiling water 80°C. Non continuous boiling water 100°C

Mechanical Specification

Mounting Position	Operate Angle	Release Angle	Shock	Vibration
±30° from horizontal	Minimum 9° from mounting angle	Maximum 11° from mounting angle	50g for 11ms duration (reed switch only) To MIL STD 202, method 213A	35g up to 500Hz (reed switch only)

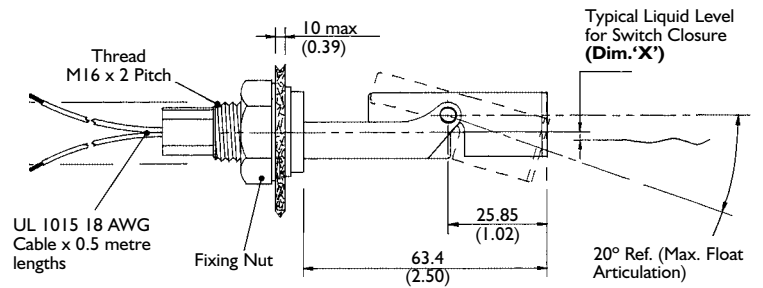
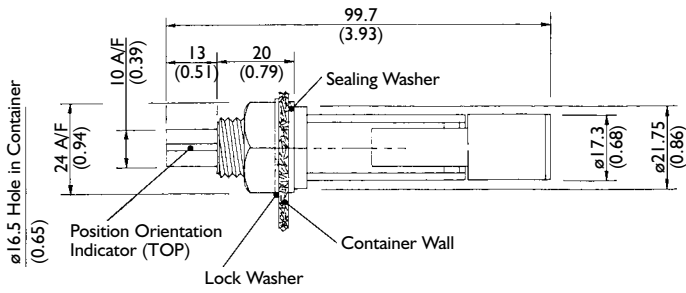
Electrical Connections

CABLE OPTIONS

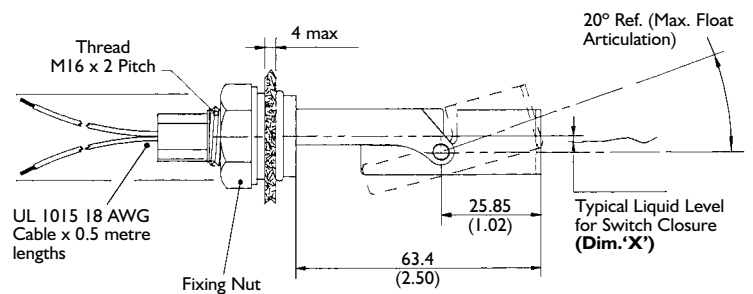
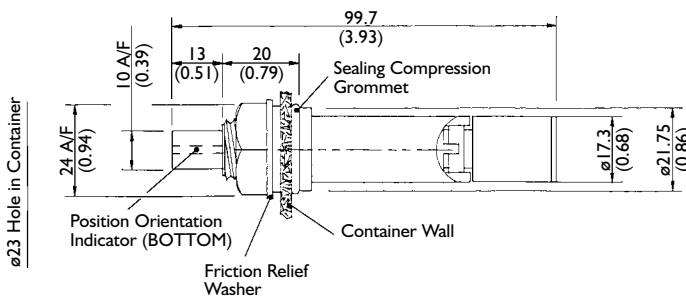
Standard cable is fitted with 2 x 18 AWG, 32/0.2mm stranded, with PVC insulation approved to UL/CAS/BS6361.

Double insulated cable fitted with 24/0.2mm stranded, with PVC insulation approved to UL/CAS/BS6500

Internal Fitting



External Fitting



Typical liquid level differential between switch operate/release 3mm.

Switch operate point (DIM 'X') in water

LDS8	Polypropylene	with position orientation indicator TOP	0mm
		with position orientation indicator BOTTOM	2mm
LDS3	Nylon 6.6	with position orientation indicator TOP	1mm
		with position orientation indicator BOTTOM	3mm

Installation

Please contact Sales at Gentech for installation instructions (Ref. FI-0700-R1)

Applications

Please contact Sales at Gentech for applications relating to this product group.



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