



## LDS309-51N

### LDS Series–Level Sensor

#### Features

- High or low level sensing
- Internal or external fitting
- Reed Switch reliability
- Nitrile sealing washer/grommet
- Easy installation

#### Applications

- Chemical high or low level
- Diesel Fuel
- Fuel low level
- Alcohols
- Low Oil Detection

#### Comments

- Close Differential between open and closed
- Normally open or normally closed by rotating through 180
- Suitable for a wide range of liquids
- Interface option available
- Nylon 6.6 Material

#### Material

|                                 |                        |
|---------------------------------|------------------------|
| <b>Housing Material</b>         | Glass Filled Nylon 6.6 |
| <b>Float Material</b>           | Glass Filled Nylon 6.6 |
| <b>Contact Material</b>         | Ruthenium              |
| <b>Float SG</b>                 | 0.85                   |
| <b>Operating Temperature °C</b> | -30 to 130             |
| <b>Medium</b>                   | Fuels, Oils, Alcohols  |
| <b>Housing and Float Color</b>  | Blue                   |

#### Cable

|                        |                               |
|------------------------|-------------------------------|
| <b>Cable Length</b>    | 2 x 0.5M single insulated     |
| <b>Connection Type</b> | Stripped Cables               |
| <b>Cable Type</b>      | 18AWG, 32/0.2mm PVC insulated |
| <b>Cable Color</b>     | Black                         |

#### Mechanical Specifications

|                         |                       |
|-------------------------|-----------------------|
| <b>Shock</b>            | 50g for 11mS duration |
| <b>Vibration</b>        | 35g up to 500Hz       |
| <b>Maximum Pressure</b> | 4.7 Bar               |
| <b>IP</b>               | IP65                  |

#### Mounting

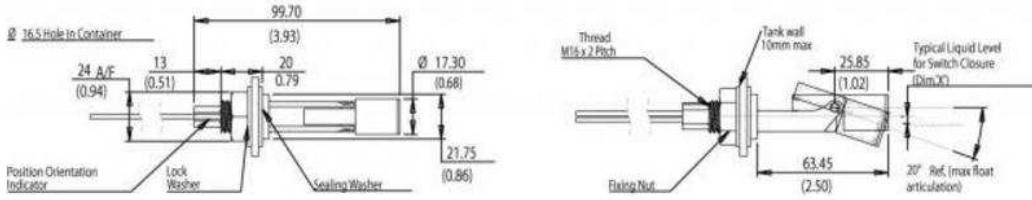
|                 |                                |
|-----------------|--------------------------------|
| <b>Thread</b>   | M16                            |
| <b>Fitment</b>  | Universal Internal or External |
| <b>Mounting</b> | Horizontal                     |

**Switching**

|                             |                           |
|-----------------------------|---------------------------|
| Switch Action (Reed Switch) | SPST                      |
| Max Switching Voltage VDC   | 200                       |
| Max Switching Voltage VAC   | 250                       |
| Max Switching Current Amps  | 1                         |
| Max Switching Load Watt     | 70                        |
| Operate Mode                | N/C with float horizontal |
| Contact Form                | A                         |

**Technical Drawing**

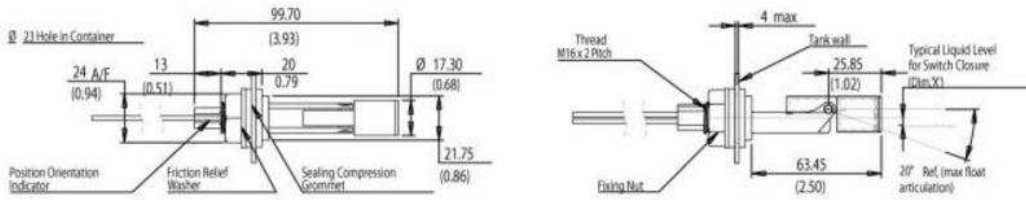
**Internal Fitting**



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 |

**External Fitting**



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 |

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