

## LIQUID LEVEL SENSORS

### LS Series - Horizontal Level Sensor

## LS803-51

#### Design

#### Features

- High or low level sensing
- External & Internal fitting options
- Reed Switch reliability
- Silicone sealing components
- Easy installation



#### Product

#### Comments

- UL listed model, File E98428
- Normally open or normally closed by rotating through 180°
- Suitable for a wide range of liquids
- Interface option available
- Polypropylene Materials

#### Typical

#### Applications

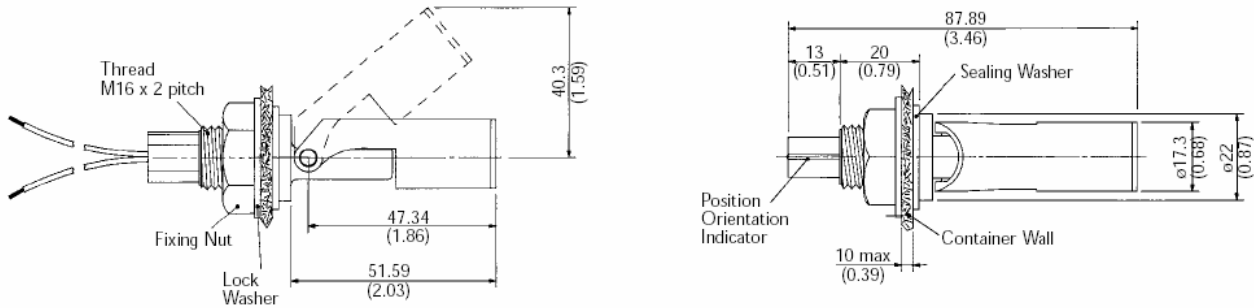
- Drinking water level
- Coolant level indication
- Cooling systems
- Water high or low Level
- Waste Water Level

#### Material, Design and Operation

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Mounting:                       | Side Entry                                                     |
| Material:                       | Polypropylene                                                  |
| Fitting                         | External & Internal Universal Fitting                          |
| Contact Form:                   | Form A - SPST                                                  |
| Contact Material:               | Ruthenium                                                      |
| Maximum Switching Volts:        | 250 VAC                                                        |
| Maximum Switching Current:      | 1.0                                                            |
| Maximum Power:                  | 15 Watts                                                       |
| Housing Temperature Range °C:   | 80                                                             |
| Housing Material:               | Glass Filled Polypropylene                                     |
| Housing Colour:                 | Charcoal                                                       |
| Float Material:                 | Glass Filled Polypropylene                                     |
| Connection Type:                | Stripped Cables                                                |
| Cable Type:                     | 2 x 18AWG 32/0.2mm PVC insulated<br>0.5m long to UL/CSA/BS6361 |
| Cable Colour:                   | Black/Black                                                    |
| Minimum Specific Gravity:       | 0.65                                                           |
| Operating Temperature Range °C: | 80                                                             |
| Operating Pressure BAR:         | 4                                                              |
| Sealing Components:             | Silicone                                                       |
| Mounting Shock:                 | 50g for 11ms duration                                          |
| Mounting Vibration:             | 35g up to 500Hz                                                |
| Operate Mode:                   | N/C with float Horizontal                                      |

## Line Drawing

### Internal Fitting



#### INTERNAL FITTING

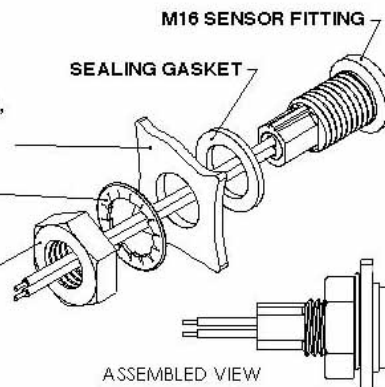
CONTAINER WALL  
(THICKNESS MAX 10mm, MIN 1mm)

NOTE! DRILL 0.65" OR 16.5mm HOLE,  
ENSURE FREE FROM SWarf AND  
SHARP EDGES.

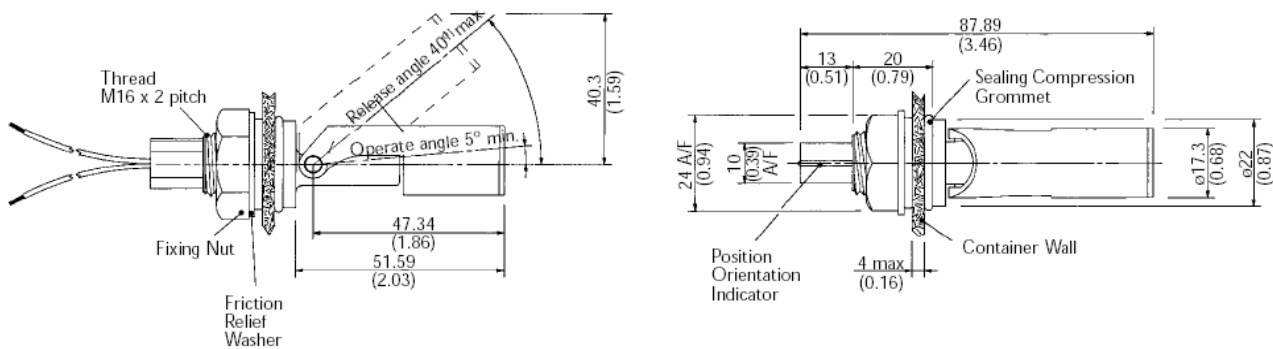
LOCK WASHER

FIXING NUT

NOTE! MAX TORQUE 3lbs/ft  
OR 4Nm.



### External Fitting



#### EXTERNAL FITTING

CONTAINER WALL  
(THICKNESS MAX 4mm, MIN 1mm)

NOTE! DRILL 0.9" OR 23mm HOLE,  
ENSURE FREE FROM SWarf AND  
SHARP EDGES.

SEALING GROMMET

FRICTION RELIEF  
WASHER

FIXING NUT

NOTE! MAX TORQUE 2lbs/ft  
OR 2.67Nm.

