

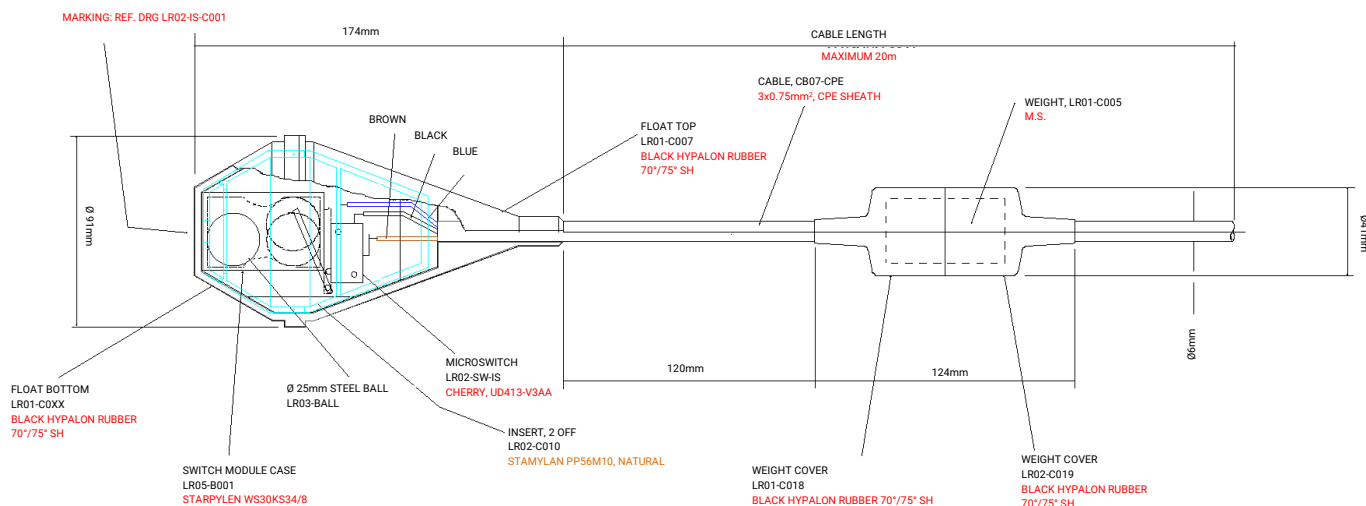


## INSTRUCTIONS – LR02-IS Certificate Sira CSA 04ATEX2187

- The certification marking for the LR02-IS is as follows:



- The LR02-IS (Certificate Sira CSA 04ATEX2187) may be used in zones 1 and 2 with flammable gases and vapours with apparatus groups IIA, IIB & IIC and with temperature classes T1, T2, T3, T4, T5 and T6.
- The equipment is only certified for use in ambient temperatures in the range -20°C to +70°C and should not be used outside this range.
- The equipment has not been assessed as a safety-related device.
- Installation of this equipment shall be carried out by suitably-trained personnel in accordance with the applicable code of practice.
- Repair of this equipment shall only be carried out by the manufacturer or in accordance with the applicable code of practice.
- The certification of this equipment relies on the following materials used in its construction:



If the equipment is likely to come into contact with aggressive substances, then it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

[Aggressive substances]

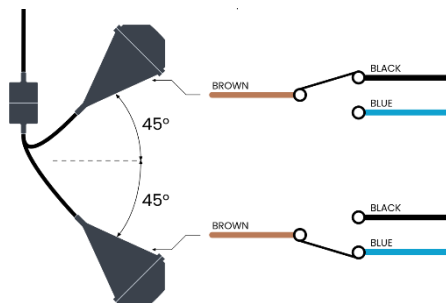
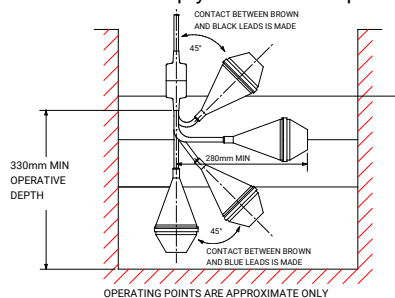
e.g. acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.

[Suitable precautions]

e.g. regular checks as a part of routine inspections or establishing from the material's datasheet that it is resistant to specific chemicals.

## Method of Operation

The microswitch assembly inside the float, axially mounted in line with the weight, changes contacts according to the float's position, as in the diagrams below. As the liquid level drops or rises slowly, a pump or flow control suitably connected, can be switched in or out to maintain an average level of the liquid. By connecting only one side of the switch, the unit can be also used to fill or empty the tank as required.



Dimensions, in mm, do not take into consideration any lateral swing of the cable.

## Specification

### MAXIMUM PARAMETERS

- Max Working Voltage: Ui 30V
- Max Working Current: li 100mA
- Min Contact Rating: 8V/8mA DC  
(suitable for IS system interface)
- Max Temperature 70°C
- Min Temperature -20°C
- Max Submerged Depth: 20m
- Compressive Strength 482 KN/m<sup>2</sup> (70 lbf/in<sup>2</sup>)
- Max specific gravities: 1.3
- Min specific gravities: 0.8

### CHEMICAL RESISTANCE

AGAINST	RATING
Lubricants	Fair
Diesel oil & petrol	Poor
Vegetable & animal fats	Good
Water Absorption	Good
Oxidation	Good
Ozone	Good
Sunlight	Good
Dilute Acids	Good
Alkalies	Good
Alcohols	Good
Salt water	Good

A comprehensive list of chemical resistances is available on request

## EU DECLARATION OF CONFORMITY

LR02-LxxM-IS

(Where xx is the length i.e. 05 is 5m and xx cannot exceed 20m)

Triton Controls Ltd declare under our sole responsibility that the product(s) listed above conform with the relevant provisions of directive 2014/34/EU and are also compliant with the RoHS directive.

Notified Body: Sira CSA Certification Service (2813)  
Utrechtseweg 310  
6812AR Arnhem

Conformity has been demonstrated with reference to the following documentation:  
EU type examination certificate Sira 04ATEX2187  
Quality Assurance Notification Sira 04ATEXM303

Compliance with the Essential Health and Safety requirements has been assessed by reference to the following standards:  
EN 50014:1994 + Amendments 1 & 2  
EN 50020:2002

Checked yearly against the standards:  
EN 60079-0  
EN 60079-11

Signed

  
John Williams (Managing Director)

Date 15/06/2022

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