

LR02 Datasheet

Description

The LR02 is a proven heavy-duty submersible float switch, widely recognised across the industry for its reliability in sewage and wastewater applications. Designed for demanding environments, the LR02 combines robust construction with ease of installation.

The float body is manufactured from Hypalon synthetic rubber, offering excellent durability and chemical resistance, while the CPE cable ensures long service life in aggressive media. Its tear-drop shape minimises material build-up, maintaining consistent operation even in challenging conditions.

For simple installation, the LR02 is supplied with a built-in counterweight on the cable, eliminating the need for external weighting or tethering devices. This dependable float switch is ideally suited for sewage pump stations, wastewater treatment systems, and other heavy-duty level control applications.



Specification

	Rating
Contact Rating:	240Vac 15A non-inductive 240Vac 10A inductive [1.3 Horsepower] 125Vdc 0.6A 240Vdc 0.3A
frequency	50/60Hz
Cable	05RN-F 3x0.75mm ²
Temperature	
Min	0°C [Frozen]
Max	70°C
Max Submerged Depth	20m
IP Rating	IP68
Compressive strength	482 kN/m ²
Operational Gravities	Specific
Min	0.9
Max	1.3
Conformance	CE LVD RoHS EN 60730-1 EN IEC 60730-2-15

Applications

- Sewerage tanks
- Sump or tank wells
- Rainwater harvesting systems
- Irrigation & agricultural tanks
- Pumping stations
- Wastewater treatment plants
- Chemical effluent tanks [where PP & CPE materials are suitable]
- High/low level alarms

Order Code

LR02-L□□M-CPE

CABLE LENGTH / m

05
10
20

i.e. LR02-L10M-CPE

Stocked items have cable lengths of 5, 10 & 20m

NOTE: For cable lengths exceeding 20m, or for custom lengths, please contact Triton Controls Ltd.

Chemical Resistance

AGAINST	RATING
Lubricants	Fair
Diesel oil & Petrol	Poor
Vegetable & Animal Fats	Good
Water Absorption	Good
Oxidation	Good
Ozone	Good

AGAINST	RATING
UV & Sunlight	Good
Dilute Acids	Good
Alkalies	Good
Alcohols	Good
Salt Water	Good

Contact

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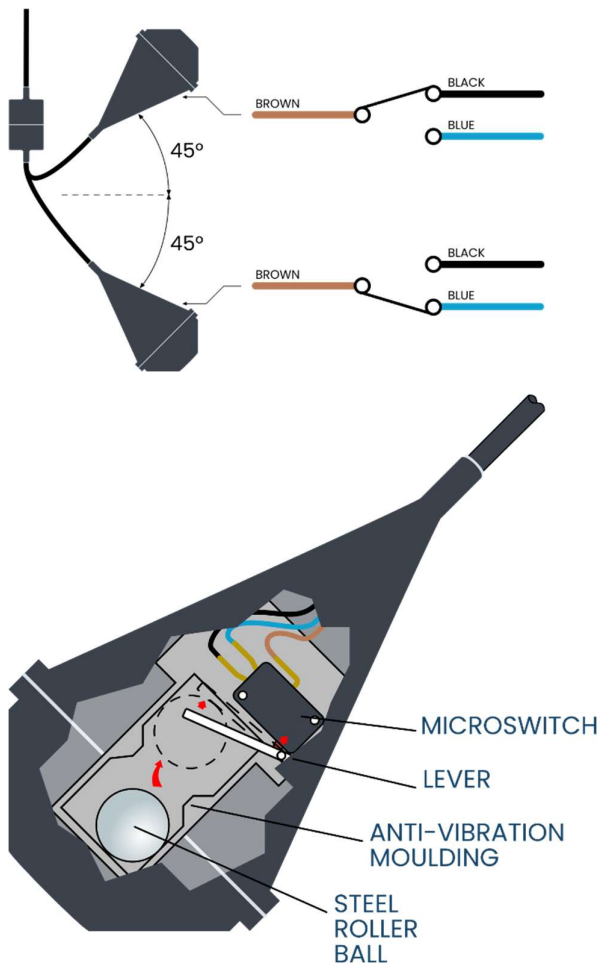


Operation

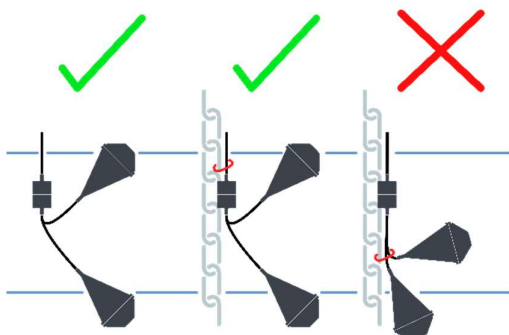
The float switch operates by means of an internal ball that actuates a microswitch. Switching occurs based on the angle of the float:

- At 45° or greater above horizontal, the switch closes to the black wire [with brown as common].
- At 45° or lower below horizontal, the switch closes to the blue wire [with brown as common].

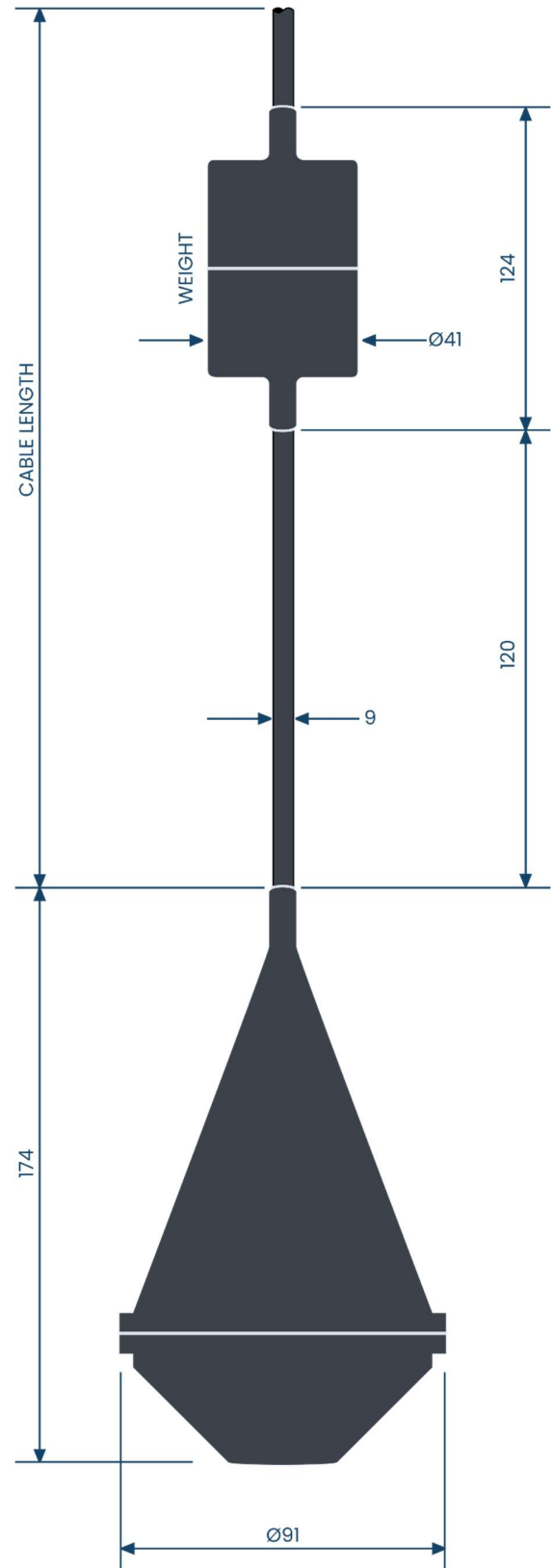
Integrated hysteresis prevents false or nuisance switching caused by liquid turbulence.



NOTE: If tethering is required, do not secure the float switch too close to the float body, as this may impede correct operation.



Dimensions



Dimensions in mm