

LR20 Datasheet

Description

The LR20 is a heavy-duty, compact float switch designed for reliable level control in sewerage, wastewater, and other demanding liquid-handling applications.

Developed as a modern plastic alternative to the long-established LR02, it combines proven operating principles with durable contemporary materials to provide a robust and cost-effective solution. Its compact design makes it ideal for installations where space is limited, while its rugged construction ensures dependable performance in harsh environments containing solids and suspended matter. Suitable for pump control, high-level alarms and general level regulation, the LR20 delivers long service life and reliable operation in challenging 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	CPE 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

Accessories

The LR20 -W is an optional clamp-on counterweight designed for use with the LR20 float switch range, with a weight of 700g.



Order Code

LR20-L□□M-CPE

CABLE LENGTH / m

05
10
20

i.e. LR20-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.

Contact

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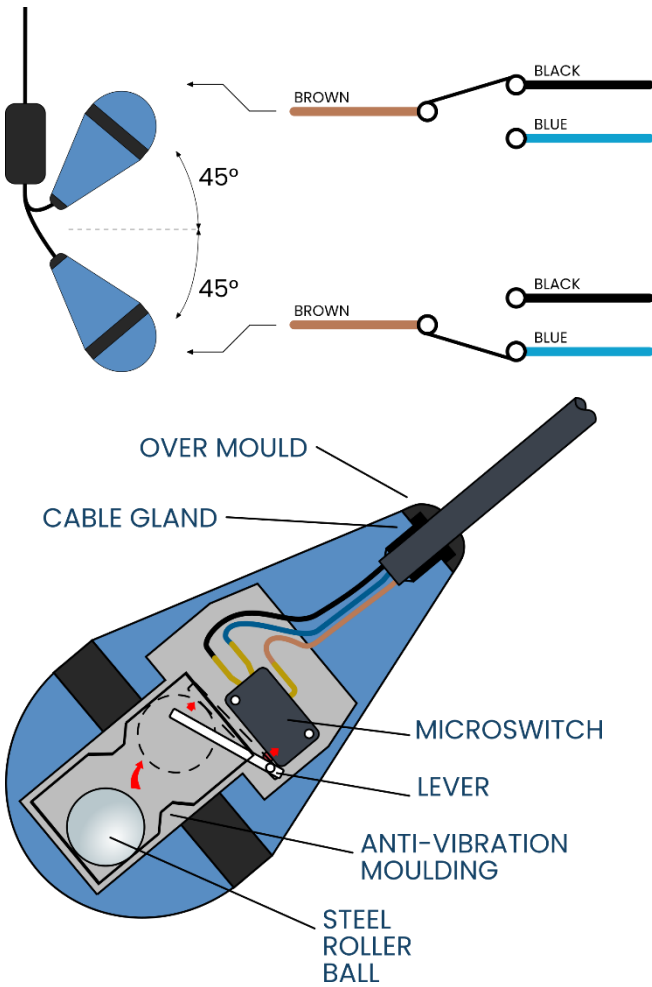


Operation

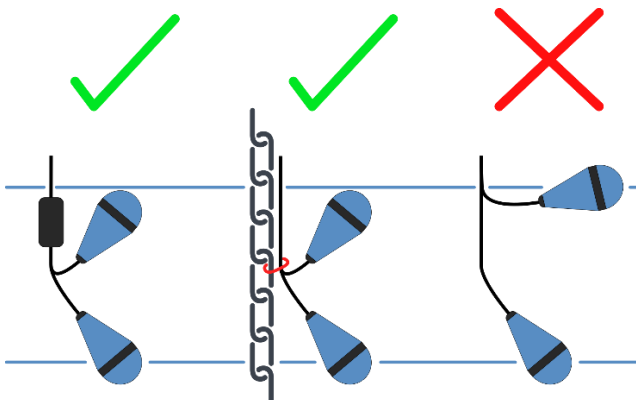
The float switch operates by means of an internal ball that actuates a microswitch. Switching occurs based on the angle of the float:

- 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: The float switch must be securely tethered or fitted with a counterweight to ensure correct operation



Dimensions

