

LRW8 Datasheet

Description

The LRW8 is a heavy-duty submersible float switch specifically designed for sewage pump applications. Its integrated weight, housed within a polypropylene float body, enables reliable operation even in demanding environments by breaking through heavy crust layers that commonly form in sewage pump stations.

Its tear-drop profile minimises material build-up on the float surface, ensuring consistent performance and reducing maintenance requirements. Combined with a synthetic rubber cable, the LRW8 offers excellent chemical resistance and long service life in the acidic and corrosive conditions typically found in sewage and wastewater.

This rugged float switch is quick to install and requires no external tethering or additional counterweight. It incorporates a multi-contact switch mechanism, offering both normally open [NO] and normally closed [NC] contact configurations for maximum flexibility in control and alarm 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
	0.9
Min	1.3
Max	
Conformance	CE LVD RoHS
	EN 60730-1 EN IEC 60730-2-15

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
Alkalis	Good
Alcohols	Good
Salt Water	Good

Contact

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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

LRW8-L□□M-CPE

CABLE LENGTH / m

05
10
20

i.e. LRW8-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.

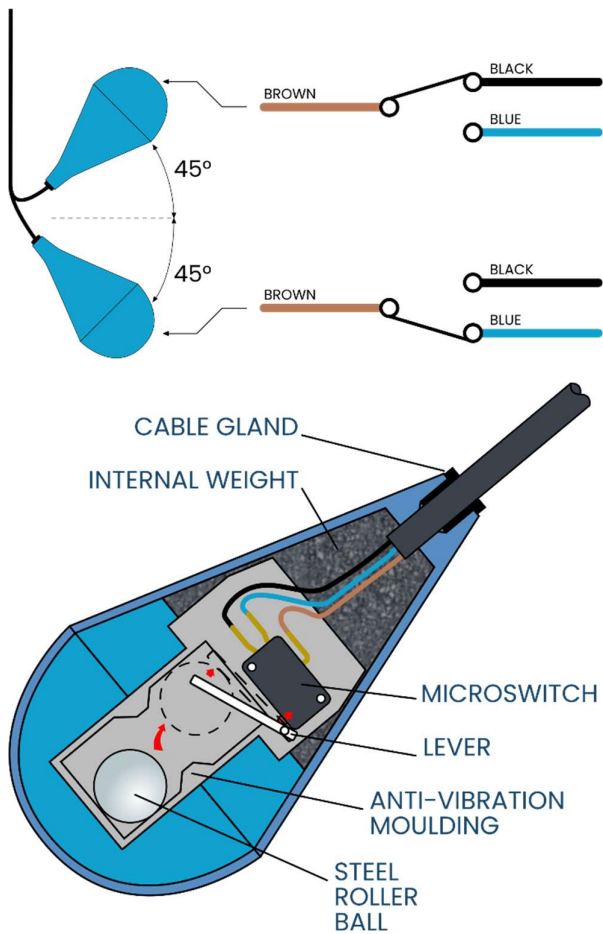


Operation

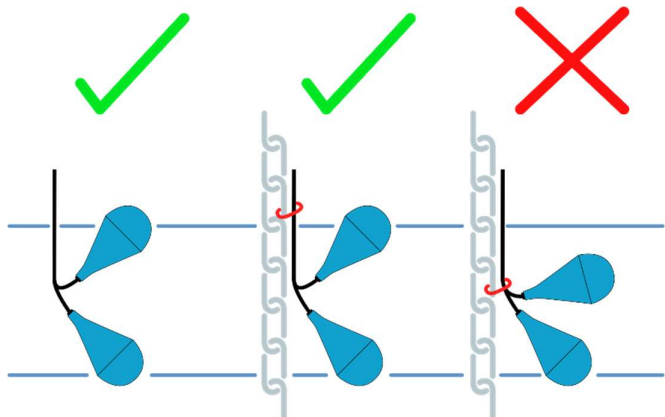
The float switch operates by means of an internal ball that actuates a microswitch. Switching occurs based on the angle of the float:

- 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].

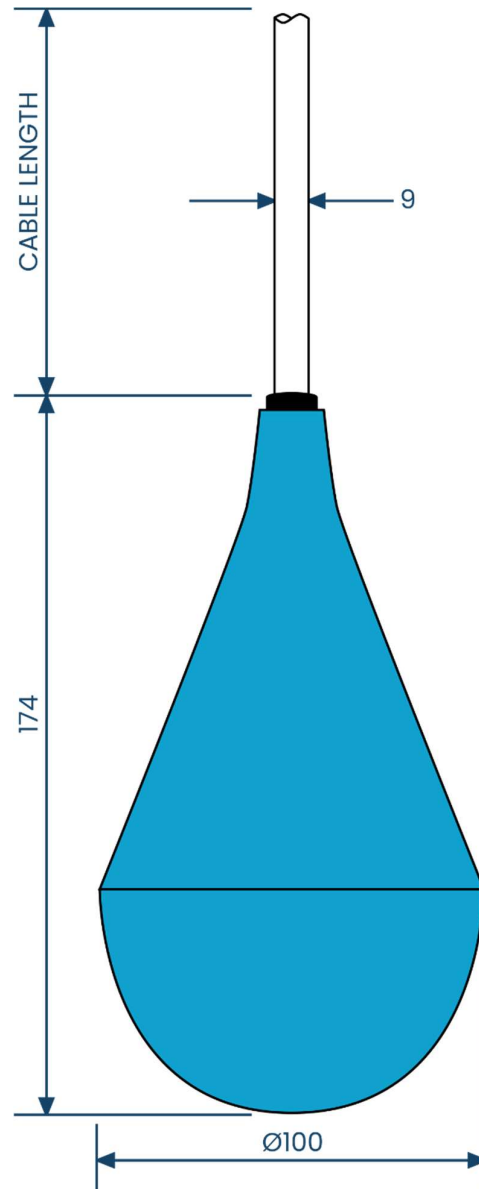
Integrated hysteresis prevents false or nuisance switching caused by liquid turbulence.



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