

# LR30-BASIC Datasheet

## Description

The LR30-BASIC is Triton Controls economy variant of the LR30 alarm series. The alarm operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input.

Once activated, the alarm provides a visual and audio indicator. There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt free relay output.

A mute button allows the operator silence the audio alarm of the unit without affecting the visual, auxiliary output or volt free relay output of the alarm.

A test button conveniently allows the operator to check the alarm functions without the need of triggering the input to the alarm.

Power to the alarm is indicated via a blue constant light, allowing easy operational inspection of the unit.

Typical uses for this alarm are high or low-level warnings in water treatment tanks.

## Specification

	Rating
<b>Enclosure</b>	
IP rating	IP65 rated
Dimensions	230x120x100mm
Weight	0.7kg
<b>Supply Voltage</b>	
Minimum	110Vac [ 50/60Hz ]
Maximum	240Vac [ 50/60Hz ]
<b>Fusing</b>	250mA [Internal]
<b>Switched Input</b>	
Max cable length	200m
Switched voltage	5Vdc
Max switched current	10mA
<b>Audio Output</b>	
Max sound level	105dB
<b>Visual Alarm Output</b>	
	Red flashing LED
<b>Output Relay</b>	
Relay topology	SPDT [COM/NO/NC]
Max current	10A @250Vac
Max Voltage	250Vac
<b>Auxiliary Output</b>	
Voltage	12Vdc
Max Current	250mA [ 3W ]
<b>Terminal Capacity</b>	0.2-4mm <sup>2</sup> [tool free wire fitting]
<b>Ambient Temperature</b>	-10°C to +55°C



## Key Features

- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65 rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- Volt free relay contact output SPDT
- Easily upgradable GSM module port
- Configurable for ACTIVE open or ACTIVE closed alarm input
- Easy installation no tool required WAGO wiring terminals

## Accessories

- LRAC-A003 12Vdc IP65 Flashing Red Beacon
- Works with all Triton Controls float switches i.e., LR03-L10M-CPE
- LR30 GSM upgrade module

# Internal Features

**GSM module upgrade port**  
[fitted for GSM variant]

**250mA 20mm Line in fuse**

**90-240Vac 50/60Hz WAGO easy install connector**

**Aux output for accessories**  
Output activated by the alarm  
12Vdc 250mA

**Alarm Active OPEN/CLOSED Option**  
[See Wiring Examples Below]

**Alarm ACTIVE**

- Alarm ACTIVE Input Open Circuit
- Alarm ACTIVE Input Closed Circuit

**Alarm Input**  
[See Wiring Examples Below]

**Alarm Output Relay [Volt Free Output]**  
10A 240V max

**Alarm INACTIVE**

**Alarm ACTIVE**

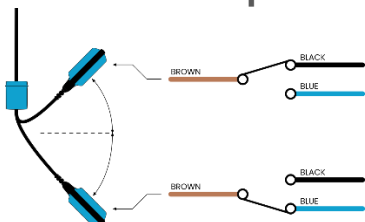
## Typical Installation

**Alarm Active OPEN Circuit Option**  
[Recommended]

See [Float Switch Operation]

**Alarm Active CLOSED Circuit Option**

## Float Switch Operation



NOTE: The float switch must be tethered or weighted to operate correctly

NOTE 2: None Triton Controls Float switches may be wired differently

## LR30 Full Range

	Description
<b>LR30 BASIC</b>	Basic alarm
<b>LR30 BASIC GSM</b>	Basic alarm with GSM module fitted
<b>LR30 BATTERY [240]</b>	Backup battery alarm 110-240Vac
<b>LR30 BATTERY [24]</b>	Backup battery alarm 12-24Vac/dc
<b>LR30 BATTERY [240] GSM</b>	Backup batt' alarm 110-240Vac GSM
<b>LR30 BATTERY [24] GSM</b>	Backup batt' alarm 12-24Vac/dc GSM

### INSTALLATION WARNINGS

- When the cover of the product is removed, ensure the supply is isolated.
- Take extra care when connecting stranded cables into the connectors. Avoid lengthy uninsulated cable and ensure there are no loose cable strands
- Do not install this product where the audio alert from the alarm will be impeded. Please note the environment the product is situated will affect the audio & visual alert.