Simple Control - The Short Fogrod & Relays

June 2020

This datasheet explains:

- the short version of the Fogrod with 3-contacts with and without a ground point
- level relays that are packaged with the short Fogrod

The Fogrod is a very simple and reliable conductive level device - it uses the conductivity of water, wastewater and other conductive liquids, in conjunction with a control panel device, to detect liquid level.

This means it is ultra-reliable in water and wastewater - no moving parts, no sensors, no electronics in the wetwell. The Fogrod can handle turbulence - if it bangs into walls it doesn't break, it keeps working just the same, and the turbulence doesn't affect the level reading.

FOG-S-3C-100 - the 3-contact unit with 100ft (30m) cable

The version with the ground point

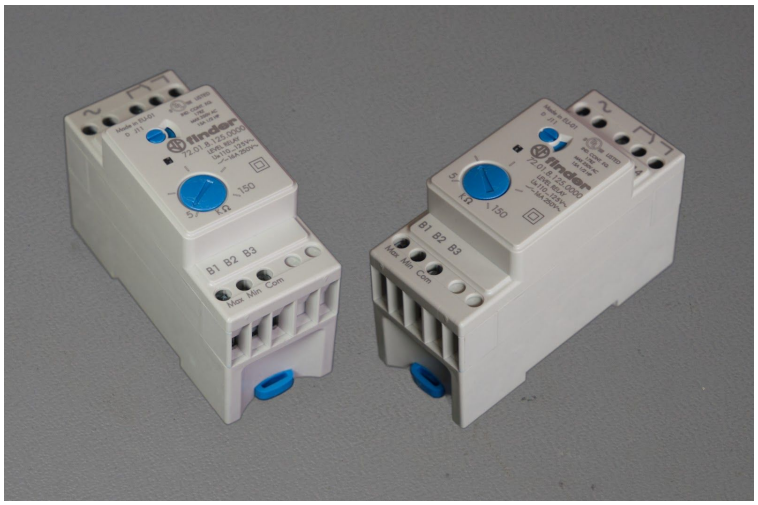
The mounting/cleaning bracket that comes with all Fogrods

The short 3-contact Fogrod is ideal for simple backup, for dewatering applications in mining and many other applications that require simple control.

We recommend the version without ground point for applications where grease and rags could attach to the Fogrod. In this case, the signal path is through the Fogrod, through the water/wastewater and through the concrete and steel of the wetwell back to the level relay. If grease and rags are a concern in a plastic or fiberglass tank then a ground rod can be put in the bottom of the tank.

For storm water and mining applications the ground point version is often preferred - in this case, the signal path is back through the ground point on the Fogrod.

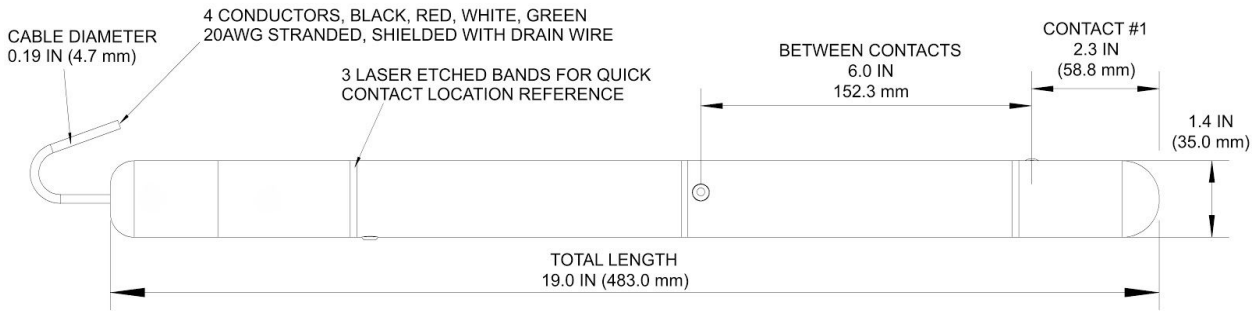
For sewer wetwells we recommend the 10-contact Fogrod and the LIT - this system has unique features that deal with grease, rags and other problems. See wastewater-level.com for more information.



This system comes with two simple latching relay rated at 250v ac. They can be used for one pump and one alarm, or for two pumps. The relays are powered from 110-125vac.

Simply install the mounting bracket (comes with anchors, an S-hook and cable tie), hang the Fogrod from the mounting bracket so that the bottom contact is where you want the pump to turn off. Connect the 3 signal wires into the 2 relays and connect the relays into your control system.

Dimensions of the 3-contact Fogrod



Short Fogrod Specifications

Construction	PVC
Metal contacts	AL6XN (super-austenitic steel for very high corrosion resistance)
Dimensions	Diameter: 1 ⅜ in (35mm), Length 19 in (483mm)
Rating	Nema 6P | IP68
Temperature rating	Operating: -40 °F to 158 °F (-40 °C to +70 °C) Storage: -40 °F to 185 °F (-40 °C to +85 °C)
Cable	4-conductor cable, diameter 3/16 in (5mm)
Mounting bracket	Aluminum (powder coated) with polyurethane cleaning pad

Specifications subject to change without notice

Relay Specifications (system consists of qty 2 relays, each with specification below)

Type	Latching relay, adjustable conductivity
Relay Rating	250v 16A SPDT
Dimensions	1 ⅜ in (35mm) x 3 ¼ in (84mm) x 2 ¼ in (56mm) - W x H x D
Rating	Nema 1 | IP20
Temperature rating	Operating: -4 °F to 140 °F (-20 °C to +60 °C)

Specifications subject to change without notice

How to Order

Kit Part Numbers

Part Number	Description	Part Numbers in Kit	List Price*
Simple-3C-100	Short 3-contact Fogrod, 100’ cable + 2 relays	FOG-S-3C-100 | Relay-2R	$615
Simple-3CG-100	Short 3-contact Fogrod with ground point, 100’ cable + 2 relays	FOG-S-3CG-100 | Relay-2R	$631
Coming soon			
Simple-3C-50	Short 3-contact Fogrod, 50’ cable + 2 relays	FOG-S-3C-50 | Relay-2R	$554
Simple-3CG-50	Short 3-contact Fogrod with ground point, 50’ cable + 2 relays	FOG-S-3CG-50 | Relay-2R	$569

Parts Pricing

Part Number	Description	List Price*
FOG-S-3C-100	Short 3-contact Fogrod, 100’ cable	$385
FOG-S-3CG-100	Short 3-contact Fogrod with ground point, 100’ cable	$400
Relay-2R	Pack of qty 2 relays	$246
Coming soon		
FOG-S-3C-50	Short 3-contact Fogrod, 50’ cable	$323
FOG-S-3CG-50	Short 3-contact Fogrod with ground point, 50’ cable	$338

*Prices subject to change without notice

*FREE DELIVERY to anywhere in the continental USA. We ship from central PA, usually by Fedex ground.

Other Products from Wastewater Level

Wastewater Level also manufactures 10-contact Fogrods with lengths 3ft, 5ft and 7.5ft. The Fogrod works with the innovative LIT, also manufactured by Wastewater Level and designed around the 10-contact Fogrods. The system is designed to deal with problems in wastewater, with unique failsafe features.

Contact us: sales@wastewater-level.com or 406 545 3023. Visit our website: wastewater-level.com