

RS-5 + RS-5LL Remote Diaphragm Switch

Piggyback Diaphragm Switch. Converts manual pumps to automatic operation

Piggy-back Plug is an
Optional extra
(We suggest you use
the piggy-back)

**Not attached when
sold*



The switch is active by pressure to the diaphragm through rising water around the switch housing. It can be used on any 230V or 240V pump up to 1/2HP rated at 10amps or less or with RS-LL up to 1/3 HP

IMPORTANT: There is a breather tube within the electrical cable...you must make sure this breather tube is 'clear' at all times...never kinked or blocked or the RS will not operate.

FEATURES

- Non-floating type water control switch
- Can be fixed to pump or mounted separately
- Available configured with normally open (pump down) or, normally closed (pump up) switch
- Supplied with Stainless steel mounting screws and 2 X poly cable ties
- When used in conjunction with a suitable controller, the RS-5 can convert virtually any pump to automatic operation

APPLICATION

- Little Giant's versatile RS-5 switch is suitable for most situations where control is required over water level
- RS-5 and RS-5LL features no level or float to become obstructed in its operation, and is more consistent
- than a mercury chamber in agitated fluid conditions
- The RS-5 comes complete fitter with special control adaptor plug for east installation
- When used in conjunction with a suitable controller, the RS switch can convert virtually any pump to an automatic operation

| ITEM | CODE | ON/OFF Differential | CABLE LENGTH | CONFIGURATION | WEIGHT (KG) |
|--------|--------|------------------------|--------------|-----------------------------------|-------------|
| RS-5 | 599010 | 'On-Off' 12.7cm | 2.4m | Normally Open | 0.56kg |
| RS-5 | 599008 | 'On-Off' 12.7cm | 3.0m | Normally Open/ Normally Closed | 0.56kg |
| RS-5LL | 599014 | 'On-Off' 3.8cm | 2.4m | Normally Open | 0.56kg |

RS-5 Remote Switch Kit for Submersible Pumps

The RS-5 remote switch for submersible pumps can be attached directly to a 5-MSP or 6 Series pump, or used separately with other pumps to control on-off operation. The 115V units come with a piggyback 115V plug/receptacle and are for 115V pumps rated 10 amps or less. The 230V unit comes with a stripped end and is for 230V pumps rated 10 amps or less.

The switch is activated when rising water around the switch housing applies pressure to a diaphragm, supplying power to the pump.

This product is covered by a Limited Warranty for a period of 12 months from the date of original purchase by the consumer. For complete warranty information, refer to www.LittleGiant.com.

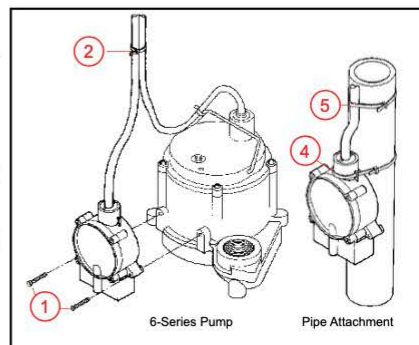


Physical Installation

1. Attach the RS-5 directly to the pump housing of a 5-MSP or 6 Series pump using the screws provided.
2. Use the cable ties provided to secure the power cords together.
3. Place pump on a solid surface in water at least 1" deep for proper operation of pump and switch.

For use with other pumps:

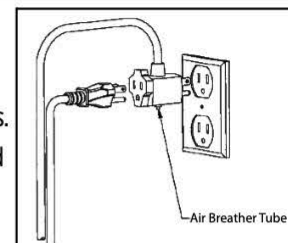
4. Attach switch to piping with provided cable tie, looping it around the switch housing's collar slots.
5. Use the other provided cable tie to secure the power cord to the piping approximately 3" above the switch collar.



IMPORTANT: When setting the switch separate from the pump, the pump intake must always be flooded.

Electrical Connections

The RS-5 115V switch is supplied with a three prong piggyback plug/receptacle on the cord and must be used with pumps that have three prong plugs. The switch cord contains a breather tube. Be sure switch cord is not pinched so that the breather tube is obstructed. Unrestricted air flow in breather tube is required for proper operation.

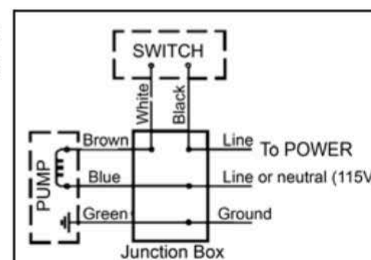


The RS-5 230V switch is supplied with a stripped wire cord end. Power connections must be made within a junction box, and must comply with the National Electrical Code. Wires are color coded as follows:

- Green/yellow = Ground; Brown = Line; Blue = Line (230 V) or Neutral (115 V)

Operation Testing

- Test the pump after all electrical connections have been made.
- Run water into area where pump is to be placed.
- Do not attempt to run the pump without water; this could result in permanent damage to the pump.
- Fill the area to a normal ON level and allow the pump to remove water to a normal OFF level.
- If the pump does not operate, disconnect switch and plug pump directly into the power supply to operate in manual control. If the pump works, the switch is defective and needs to be replaced.





SAFETY INSTRUCTIONS

This equipment should be installed and serviced by technically qualified personnel who are familiar with the correct selection and use of appropriate tools, equipment, and procedures. Failure to comply with national and local electrical and plumbing codes and within Little Giant recommendations may result in electrical shock or fire hazard, unsatisfactory performance, or equipment failure.

Know the product's application, limitations, and potential hazards. Read and follow instructions carefully to avoid injury and property damage. Do not disassemble or repair unit unless described in this manual.

Failure to follow installation or operation procedures and all applicable codes may result in the following hazards:

DANGER



Risk of death, personal injury, or property damage due to explosion, fire, or electric shock.

- Do not use in explosive atmospheres or hazardous locations as classified by the NEC, ANSI/NFPA70.
- Do not handle a pump or pump motor with wet hands or when standing on a wet or damp surface, or in water.
- If the power disconnect is out of sight, lock it in the open position and tag it to prevent unexpected application of power.

WARNING



High voltages capable of causing severe injury or death by electrical shock are present in this unit.

- To reduce risk of electrical shock, disconnect power before working on or around the system.
- Wire pump system for correct voltages.
- Some switches are supplied with lead wires and are intended to be hardwired using a junction box or other approved enclosure. The switch includes a grounding connector. To reduce risk of electric shock, be certain that it is properly connected to ground.
- Some switches are supplied with a grounding conductor and grounding-type attachment plug. To reduce risk of electric shock, be certain that it is connected only to a properly grounded grounding-type receptacle. Do not remove the third prong from the plug. The third prong is to ground the pump to help prevent possible electric shock hazard.
- Do not use an extension cord.
- Be sure the electrical connection cannot be reached by rising water.

CAUTION



Risk of bodily injury, electric shock, or equipment damage.

- This equipment must not be used by children or persons with reduced physical, sensory or mental abilities, or lacking in experience and expertise, unless supervised or instructed. Children may not use the equipment, nor may they play with the unit or in the immediate vicinity.
- Equipment can start automatically. Always unplug the pump power cord and disconnect the electrical power before servicing the pump or switch.
- Operation of this equipment requires detailed installation and operation instructions provided in this manual for use with this product. Read entire manual before starting installation and operation. End User should receive and retain manual for future use.