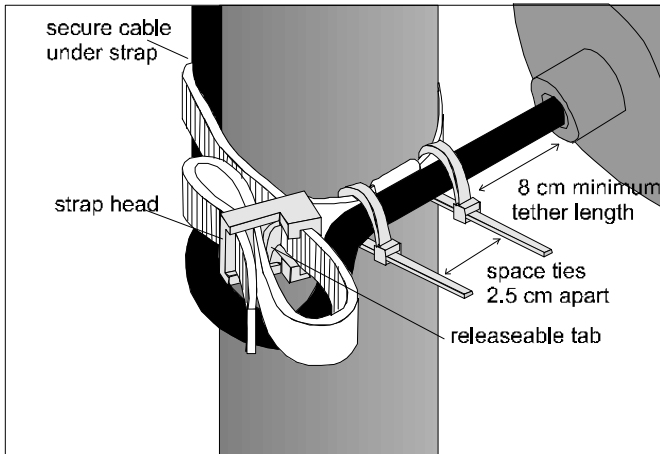


FIGURE C - Determining the Pumping Range in cm

tether length	8	15	23	30	38	46	56
pumping range	20	28	38	53	71	79	91

Use only as a guide. Pumping ranges are based on testing in non-turbulent conditions. Range may vary due to water temperature and cable shape.
Note: As the tether length increases, so does the variance of the pumping range.

FIGURE D - Tether arrangement



PREVENTATIVE MAINTENANCE

Periodically inspect the product. Check that the cable hasn't become worn or that the housing hasn't been damaged so as to impair the protection of the product.

Replace the product immediately if any damage is found or suspected.



SPECIFICATIONS

Cable

Flexible 18 gauge, 2 conductor, water-resistant. (standard)
 Flexible 18 gauge, 3 conductor, water-resistant. (SPDT)

Float

7.0 cm diameter x 12.3 cm (2.74 x 4.83 inch), high impact, corrosion resistant, polypropylene housing for use in sewage and non-potable water.

Operating Temperature Range

Water up to 60 °C (140 °F).

Maximum Water Depth

9 m (30 feet) or 90 kPa (13 psi)

Max. Pump Running Current

10 A @ 125 V AC 50/60 Hz Single Phase
 8 A @ 250 V AC 50/60 Hz Single Phase

Max. Pump Starting Current

60 A @ 125 / 250 V AC 50/60 Hz Single Phase

Note: This switch must be used with pumps that provide integral thermal overload protection.

The switch is not recommended for controlling:

- ⇒ loads less than 100 mA 12 V AC
- ⇒ non-arcing electric loads

This equipment is suitable for IEC 664 category II installations



This equipment is protected by double insulation

PULSAR Process Measurement Limited

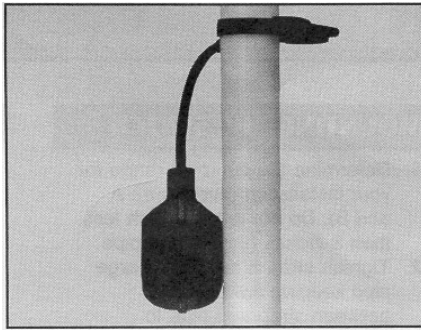
Cardinal Building Tel: +44 (0)1684 891371
 Enigma Commercial Centre Fax: +44 (0)1684 575985
 Sandy's Road
 Malvern WR14 1JJ email: info@pulsar-pm.com
 United Kingdom web: http://www.pulsar-pm.com



©

PULSAR point
 800-50

Micro Master

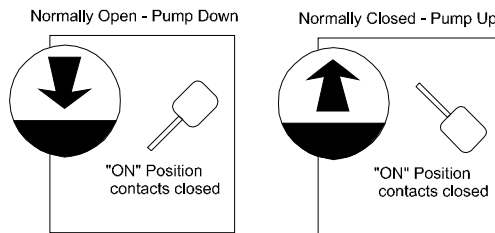


APPLICATIONS

The Micro Master pump switch provides automatic control of pumps in sump, sewage and non-potable water applications.

The Micro Master pump switch is not sensitive to rotation and can be used in either calm or turbulent applications.

The SPDT version can be wired to work in either pump up (Normally Closed) or pump down (Normally Open) applications.



OPTIONS

- ⇒ 3 m or 10 m cable
- ⇒ Pump up, Pump down or SPDT versions
- ⇒ with an adjustable mounting strap or with a cable weight.

FEATURES

- ⇒ Mechanically activated, snap action contacts.
- ⇒ High impact, corrosion resistant, polypropylene float housing.
- ⇒ Adjustable pumping range of 20 to 91 cm (8 to 36 inches)
- ⇒ Includes standard mounting strap or cable weight
- ⇒ The SPDT version can be wired as pump up (NC) or pump down (NO)
- ⇒ For use in non-potable water and sewage applications
- ⇒ Two-year warranty.
- ⇒ CE Approved.

PULSAR point 800-50 Micro Master Pump Switch

Mechanically-activated, wide-angle switch designed for performance and reliability.

INSTALLATION

Determine the pumping range for the installation (see Figures B and C).

Do not tether less than 8 cm (3 inches) from the pipe.

Tighten the strap around the discharge pipe keeping the switch cable between the strap and the pipe to prevent slippage.

Space small ties at least 2.5 cm (1 inch) apart (see Figure D).

To re-adjust ties, press small tie tabs down.

To lock the releasable tab, run the remaining strap between the tab and the head. Pull tightly

To eliminate any obstructions to the switch, tuck the strap back through the head (see Figure D).

Wire switch as shown in Figure A.

Check installation.

Allow system to cycle to ensure proper operation.

FIGURE A - Wiring Diagrams

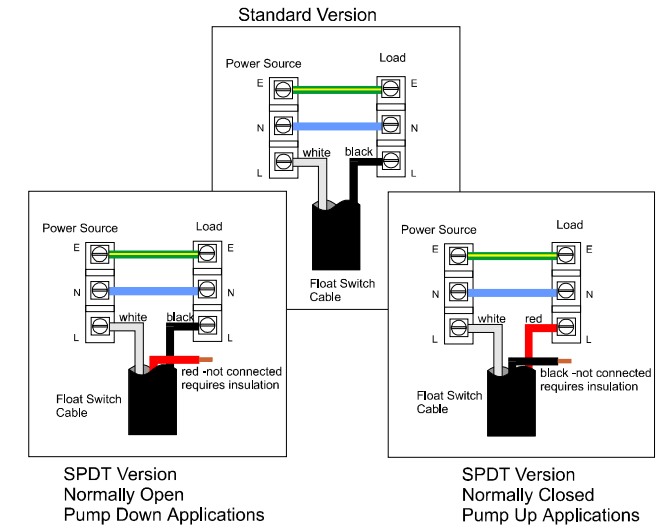
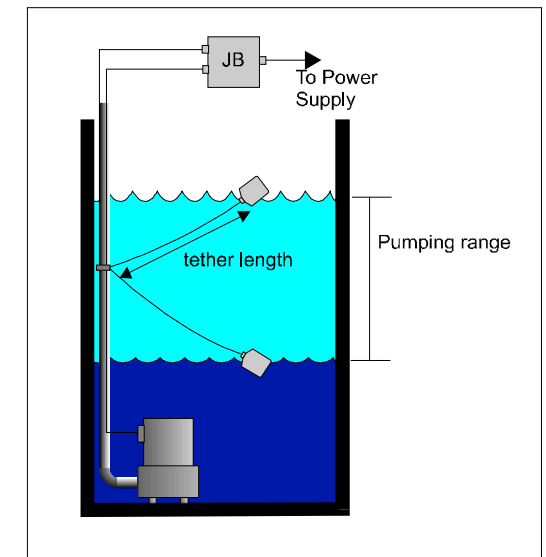


FIGURE B - Installation of MicroMaster Pump Switch



! WARNING !

- ⇒ **ELECTRICAL SHOCK HAZARD** Disconnect power before installing or servicing this product.
- ⇒ Do not use this product as a mains isolating switch.
- ⇒ This product is **not** approved for use in Hazardous Areas
- ⇒ Failure to follow these precautions could result in serious injury or death.
- ⇒ Keep these instructions in a safe place after installation.