

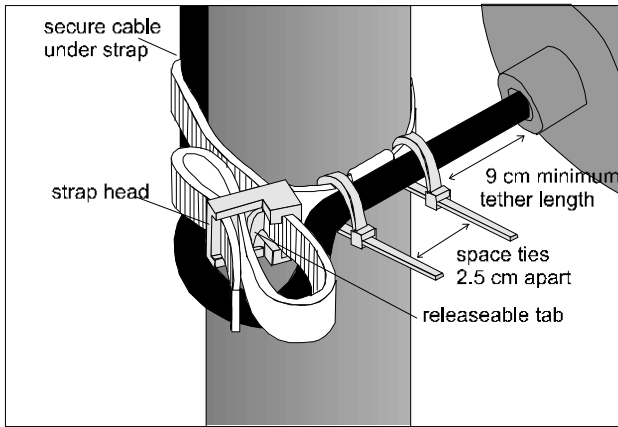
FIGURE C - Determining the Pumping Range in cm

tether length	8.75	15	25	35	45	55	60
pumping range	17.5	25	40	55	70	82.5	90

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



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

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.



SPECIFICATIONS

Cable

Flexible 16 gauge, 2 conductor, water-resistant. (standard)

Flexible 14 gauge, 2 conductor, water-resistant. (Plus)

Flexible 16 gauge, 3 conductor, water-resistant. (SPDT)

Float

7.75 cm diameter x 9.04 cm (3.05 x 3.56 inch), high impact, corrosion resistant, PVC housing.

Operating Temperature Range

Water up to 60 °C (140 °F).

Max. Pump Running Current

13 A @ 120 / 230 V AC 50/60 Hz Single Phase (Standard & SPDT)

15 A @ 120 / 230 V AC 50/60 Hz Single Phase (Plus)

Max. Pump Starting Current

85 A @ 120 / 230 V AC 50/60 Hz Single Phase

Recommended Pump Power

Standard & SPDT

375 W (1/2 HP) or less @ 120 V AC 50/60 Hz Single Phase

750 W (1 HP) or less @ 230 V AC 50/60 Hz Single Phase:

Plus

560 W (3/4 HP) or less @ 120 Vac 50/60 Hz Single Phase

1500 W (2HP) or less @ 230 Vac 50/60 Hz Single Phase:

This equipment is suitable for IEC 664 category II installations



This equipment is protected by double insulation

E & OE

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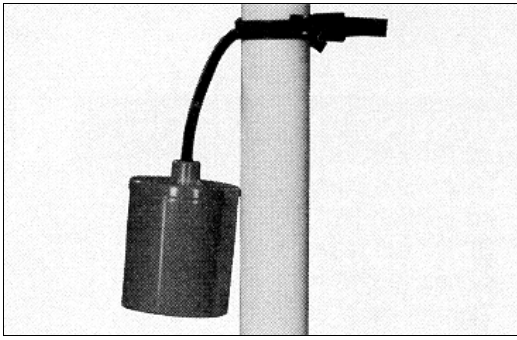
PULSAR
Process Measurement

user guide



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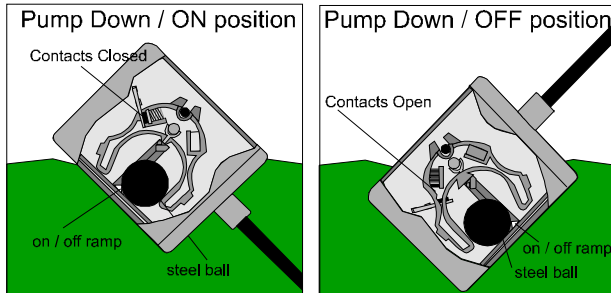
PULSAR point
800-20
Pump Master



APPLICATIONS

The PULSAR point 800-20 Pump Master pump switch is a mechanically-activated, wide-angle pump switch that provides automatic control of pumps in non-potable water and sewage applications.

The PULSAR point 800-20 Pump Master pump switch is not sensitive to rotation or turbulence allowing it to be used in both calm and turbulent applications.



FEATURES

- ⇒ Heavy-duty contacts
- ⇒ Pump Master & SPDT version

375 W (1/2 HP) @ 120 V AC
750 W (1 HP) @ 230 V AC
- ⇒ Pump Master Plus

560 W (3/4 HP) @ 120 V AC
1500 W (2 HP) @ 230 V AC
- ⇒ Adjustable pumping range of 18 cm to 91 cm (7 to 36 inches)
- ⇒ Includes standard mounting strap
- ⇒ For use in non-potable water and sewage applications
- ⇒ CE Approved.

PULSAR point 800-20 Pump Master Pump Switch

Mechanically-activated, wide-angle switch designed to control pumps up to 0.6 kW (3/4 HP) at 120 Vac and 1.5 kW (2 HP) at 230 V ac

INSTALLATION

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

Do not tether less than 9 cm (3.5 inches) from pipe.

Tighten strap around discharge pipe keeping switch cable between strap and 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 releasable tab, run remaining strap between tab and head.

Tuck strap back through head (see Figure D).

Wire switch as shown in Figure A.

Check installation.

Allow system to cycle to ensure proper operation.

OPTIONS

- ⇒ 3m or 10 m cable
- ⇒ Pump up (NC), Pump down (NO) or SPDT (NC & NO) versions
- ⇒ 375/750 W (1/2 - 1 HP) or 560/1500 W (3/4 - 2 HP) versions



! 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.

FIGURE A - Wiring Diagrams

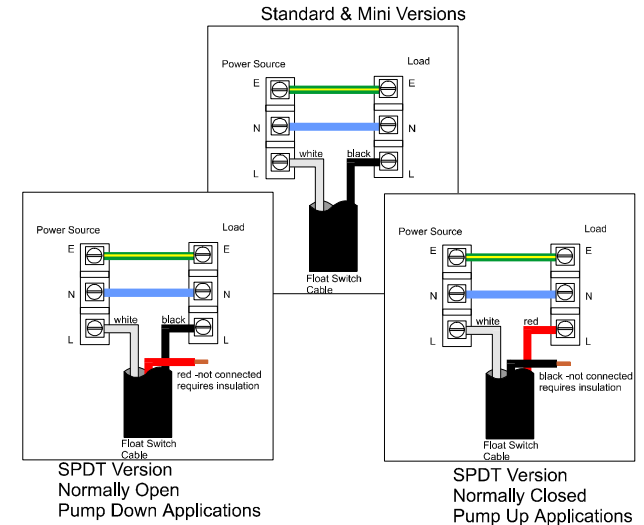


FIGURE B - Installation of PULSAR point 800-20 Pump Mas-

