

Tilt Float Switches

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*M4189
Tilt Float Switch*

Madison Company's Tilt Float Switches are the perfect solution for reliable and affordable level detection in large open vessels, water tanks, reservoirs, sumps and ponds. Three different designs are available to suit your individual application.

The molded rubber float has an integral three-conductor cable and operates on a micro-switch device that is located inside the float on an anti-vibration mount.

The rubber float is constructed of ethylene propylene diene (EPDM), a synthetic rubber with rigid and durable characteristics for long service life and resistance to heat, oxidation, ozone and aging due to weather. As a non-polar elastomer, EPDM has good electrical resistivity, as well as resistance to polar solvents such as water, acids, alkalies, phosphate esters and many ketones and alcohols.

The basic operating principle is that as the fluid level rises the float will rise, causing the micro-switch to tilt and generate a signal that can be used to start or stop a pump, open or close a valve or actuate indicator alarms as required.

Float travel is in an approximately $\pm 45^\circ$ arc from its nominal position.



*M4546
Tilt Float Switch*



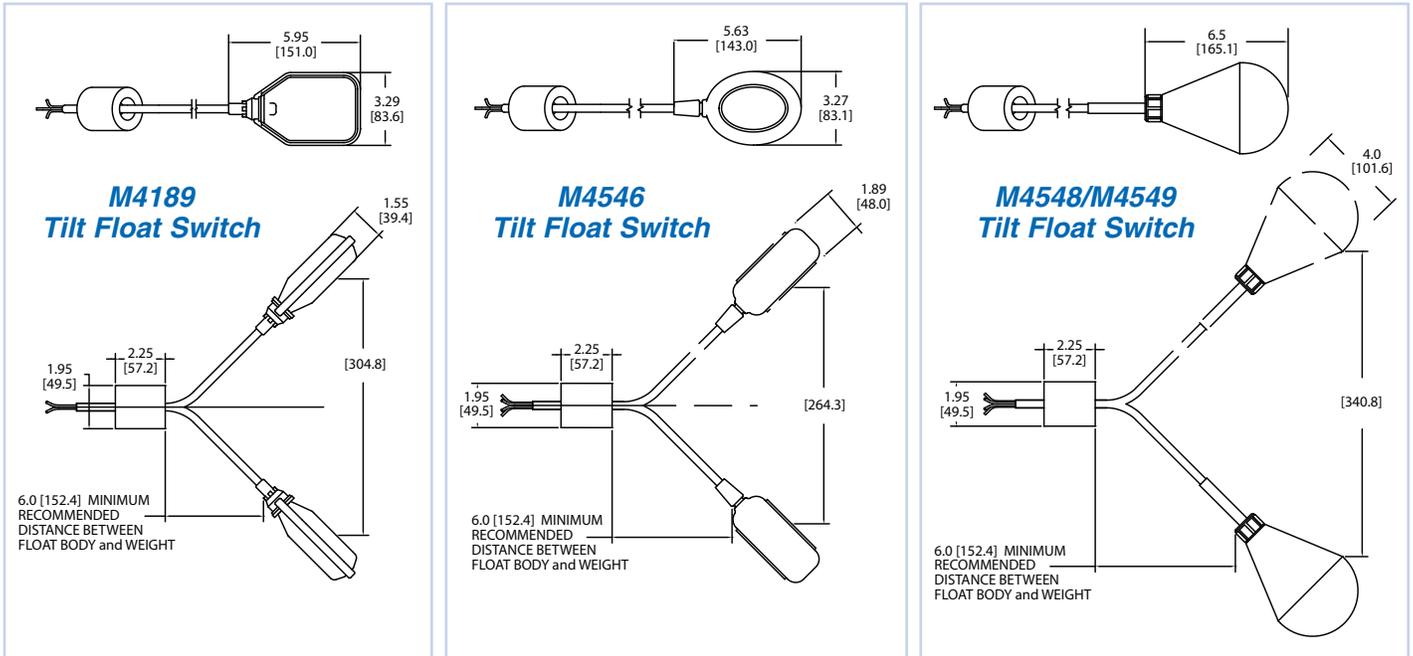
*M4548/M4549
Tilt Float Switch*

Features

- Low cost
- Easy installation
- Versatile in application
- Custom lead lengths available

Specifications

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Tilt Float Switches	M4189	M4546	M4548	M4549
Contact Rating – Form C (SPDT)	16(8)A @ 250V ~ 16(4)A @ 380V	8A @ 250V (15A starting)	8A @ 250V (15A starting)	8A @ 250V (15A starting)
Specific Gravity	0.9 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3
Standard Cable Length*	6.5' (2m)	6.5' (2m)	6.5' (2m)	49.2' (15m)

All models:

Wetted Materials: Float: EPDM rubber; Cable: PVC jacket; Housing: Polypropylene sealed weight
Max. Temperature: 70°C (158°F); **Operating Pressure:** 1 bar; **Max. Submerged Depth:** 65' (20m)

* Additional lengths available (excluding M4548). Additional cable will be neoprene jacketed, and adhesive-lined polyolefin shrink tube will be used to insulate the splice. Non-spliced lengths can be special ordered upon request. Lengths above 6.5' (2m) will have a splice in the length.

Mounting & Installation

There are no specific installation concerns. However, the lead cable should be supported in an enclosed tank. Additionally, in an open tank, sump, or pond, it is advantageous to clip the lead cable to the side, especially if excessive turbulence is experienced (a nylon cable-tie is included).

To alleviate the effects of rapid switching conditions if such turbulence is expected, it is recommended that a maintaining circuit be used to both safeguard the micro-switch and cut out any chatter from the starters of associated equipment, such as pumps.

An optional stabilizing weight and rubber "O" ring are included with all Tilt Float Switches. This may be installed at any point on the lead cable.

All specifications are subject to change without notice.



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