



Safety Precautions

- Installation, initial start-up and maintenance may only be performed by trained personnel! All applicable European and national regulations regarding installation of electrical equipment must be adhered to.
- The device may only be connected to intrinsically safe measuring circuits which comply with the specifications included in the technical data and on the serial plate!
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in the operating instructions!

Functions Description

The MNR7/4074 magnetic float actuated switch functions as a sensor for acquiring liquid fill-levels which are subject to category 1 (zone 0) conditions.

The float moves up and down the guide tube as the fill level rises or drops.

A reed contact is integrated into the guide tube, which is actuated by the magnet located inside the float.

Note:

For low viscosity media only!

Not for liquids containing solids or magnetic particles, or for liquids which tend to become resinous or sticky, or to crystallise.

Technical Data

Materials for components exposed to the process:

1.4571 stainless steel, special PTFE

Terminal housing:

PP, IP 65 per EN 60 529

Process interface:

03 variant = G1¼"

SPS2100 variant = G2"

Length:

03 variant = 179 mm

SPS2100 variant = 345 mm

Minimum medium density:

0.4 g per cubic cm

Temperature of the medium:

-20 to +120° C

Ambient Temperature of the terminal housing:

-20 to +60° C

Max. operating pressure:

100 bar

Number of contacts:

1

Contact type:

S = reed contact, monostable NO

Actuator travel:

For media with a density of 1g/cm³: approx. 5 mm

For operation in category 1 (zone 0), the MNR7/Ex... magnetic level regulator must be used as a passive 2-pole device with an intrinsically safe switching amplifier in compliance with safety specification EEx ia II C or EEx ib II C.

CE Mark

In accordance with low-voltage directive (73/23/EWG),

EMC directive (89/336/EWG) and

- EN 50 082-2:1995
- EN 55 011 (class A):1998



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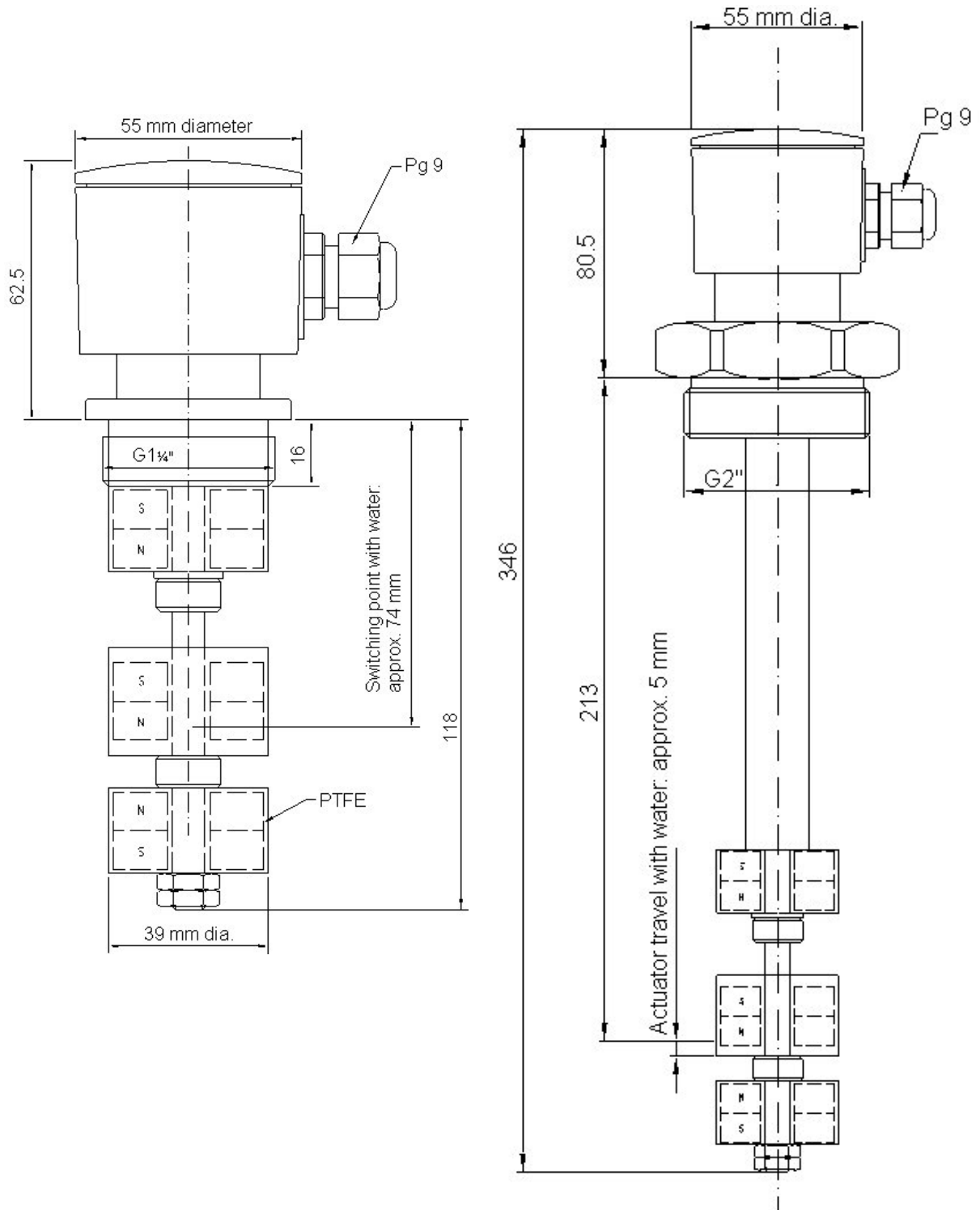
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Dimensional Drawings:



MNR7/4074.03

MNR7/4074/SPS2100