

Magnetic Level Controller MNR 7/4074



(zone 0)

- For fluids with S.G. > 0.4
- Limits: 100 bar / 120 °C
- Construction: AISI 316 Ti / PTFE
- Fittings: 1"1/4 G or 2" G
- ATEX II 1/2 G - EEx ib IIC T4 (zone 0)

PRINCIPLE

Magnetic Level Controller MNR 7 / 4074 has a magnetic equipment, a guiding stem with built-in Reed contact, fitting and head housing.

Magnetic equipment includes 2 fixed magnets and between a float with a built-in magnet. Magnets are all covered by PTFE, non-porous quality.

Magnetic equipment is designed to keep the float close to lower magnet in atmosphere or gas fluids. Fixed magnets allow floating action even with fluids of low specific weight.

As the liquid is rising and lifting the float, the mobile magnet switches the Reed contact. Reverse operation is when liquid level is lowering.

APPLICATIONS

MNR 7 / 4074 is a sensor for acquiring liquid fill-levels which are subject to category 1 (zone 0) conditions.

Detection of liquefied gases, level controller for liquids such as fuels, hydrocarbons fluids, water, refrigerating oils, chemicals.

Fluid viscosity must be < 100 cSt .

Liquids must be free of solids or/and magnetic particles; they may not become resinous or sticky, or to crystallise.

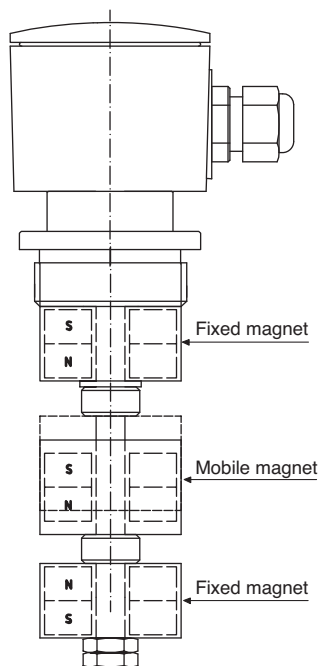
MOUNTING

MNR 7/4074 has to be mounted like any passive 2 poles device, free of potential, connected to safe zone through a intrinsically safe switching amplifier in conformity with protection class EEx ia IIC or EEx ib IIC, for use as category 1 (zone 0).

Relay RDN 11, data-sheet 251-01 is convenient for MNR 7/4074

CODE NUMBERS AND REFERENCES

Code	Reference	Designation
553 100	MNR 7/4074 – 0.3	ATEX, Magnetic level controller, 118 mm below sealing surface
553 102	MNR 7/4074 – SPS 2100	ATEX, Magnetic level controller, 265.5 mm below sealing surface



BAMO MESURES

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Magnetic Level Controller
MNR 7/4074

05-11-2014

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NIV

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TECHNICAL FEATURES

Materials wetted parts:	1.4571 stainless steel (316 Ti, special PTFE)
Terminal housing:	PP, IP 65 according EN 60 529
Process interface / Type 03:	G 1 1/4" ; height is 118 mm below sealing surface
Process interface / Type SPS2100:	G 2" ; height is 265.5 mm below sealing surface
Minimum medium density:	0.4 g/cm ³
Limits of temperature / Fluid:	-20 to +120 °C
Limits of temperature / Ambient:	-20 to +60 °C
Pressure limit:	100 bar
Trigger point / Type 03:	Approximately 60 mm below sealing surface
Trigger point / Type SPS2100:	Approximately 195 mm below sealing surface
Contact:	1 reed contact, 10 VA, mono-stable N.O.

For operation in category 1 (zone 0), the MNR 7 / 4074 Magnetic Level Controller 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.

ATEX certification:

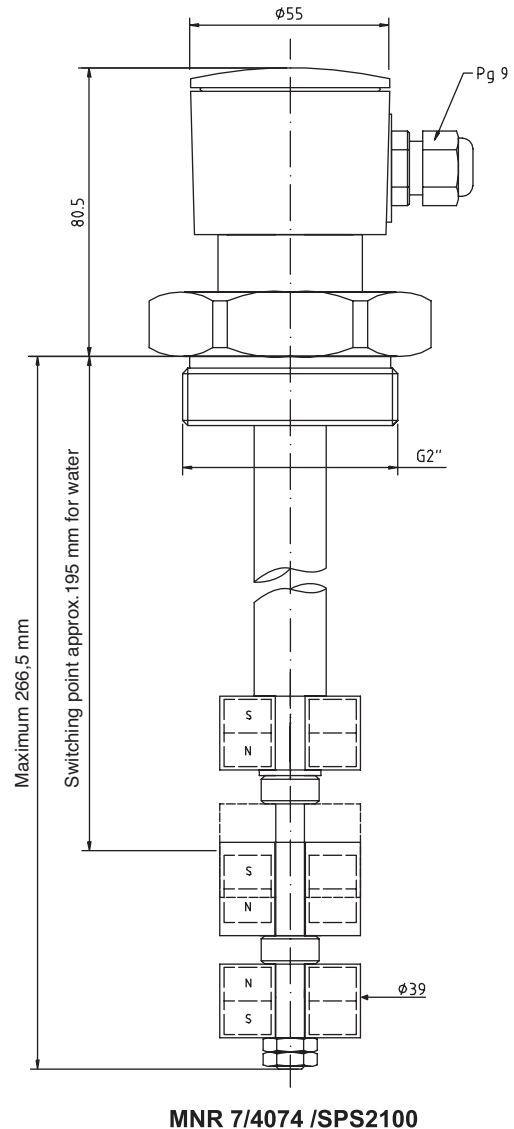
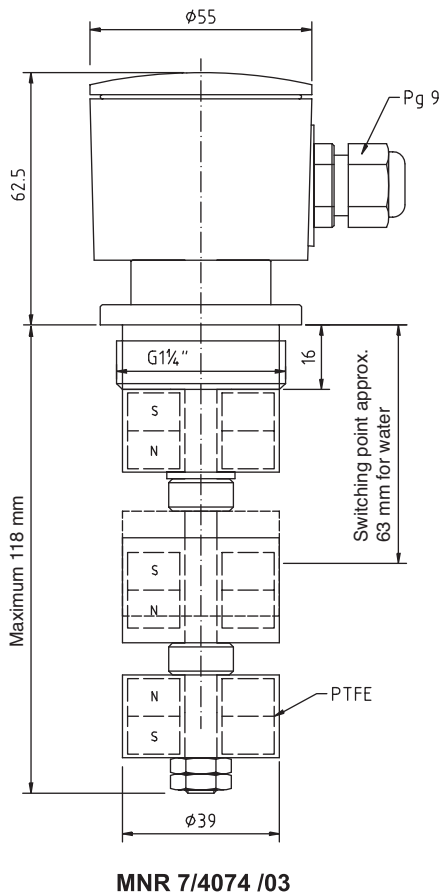
ATEX II 1/2 G - EEx ib IIC T4

TÜV 03 ATEX 2243 (pour usage en zone 0)

CE mark:

In accordance with low-voltage directive (2006/95/EG) and EMC directive (2004/108/EG)

DIMENSIONS



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