



- Pmax 100 bar
- Tmax 280°C
- Easy to install
- Suited for universal use
- Interface detection
- Adjustable hysteresis
- Immune to vibrations and EMC
- Precise setting of switch point



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Model:
NHF



Description

The KOBOLD NHF level switch comprises two parts: probe and electronics. The electronics is fitted in a plastic housing; it generates a continuous sinusoidal RF signal that is applied to the probe. The probe can be constructed in different variations to suit application and installation. The dissipated energy that flows from the probe into the medium is measured. The difference of the signal losses is produced in the signal generator as the measuring signal.

Application

The NHF level switch is suitable for detecting liquids, sludge, powders and granular materials. Detection is independent of the electrical conductivity of the medium. The probe can be fitted in vessels, piping or outdoors, regardless of the material of the vessel or piping. Probes with total insulation made of PTFE, for example, are used with conductive media (mainly with liquids). Probes with partial insulation are used with non-conductive media (with most solids). Form and length depend on the medium and the installation position.

Advantages

- Easy to install
- Operates with most media
- Can also be used for interface detection
- Adjustable hysteresis for agitated liquids
- Immuned to vibrations and EMC
- Requires no trained personnel for normal operation
- The switch point can be set exactly by measuring the signal and its reference

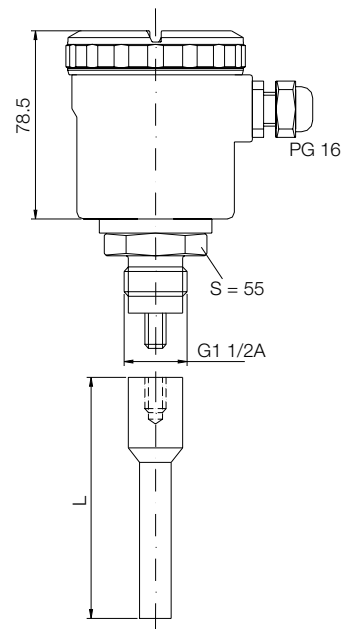
Note:

The probe is manufactured according to customer specification. We thus require very precise details on medium, pressure, temperature and an installation diagram.

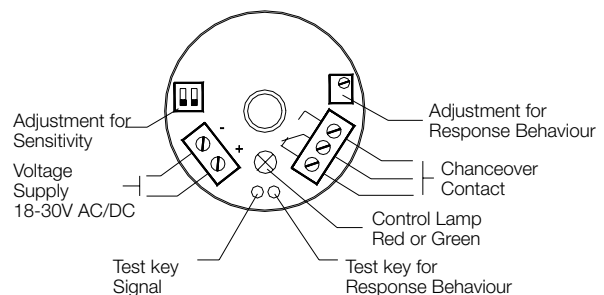
Technical Details

- Relay output: changeover contact
1 A at 24 V DC
0.6 A at 24 V AC
- Switching cycles: 2 x 10⁶
- Auxiliary power: 18–35 V DC
18–30 V AC
- Current consumption: 23 mA at 24 V DC
- Operating temperature: -30°C to +80°C
-50°C to +280°C (option)
- Storage: -50°C to +100°C
- Pressure: -1–10 bar
-1–100 bar (option)
- Length: depending on application

Dimensions



Electrical connection



Order Details (Example: NHF-010)

Model	Description	Temperature	Pressure	Protection	Length
NHF-1	RF level switch	0 = 30°C...+80°C 1 = -50°C...+280°C	0 = -1...10 bar 1 = -1...100 bar	0 = IP 65 1 = IP 68	depending on application