

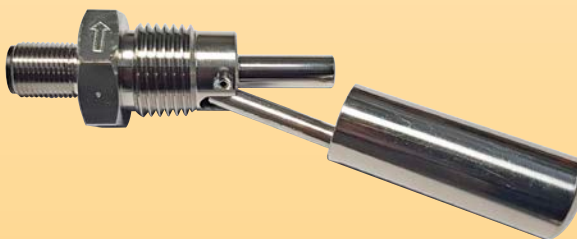
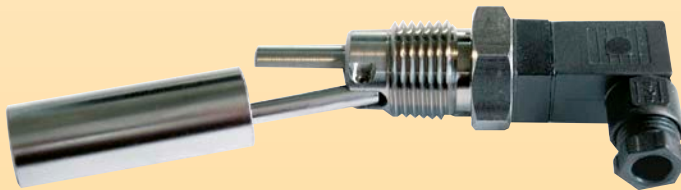
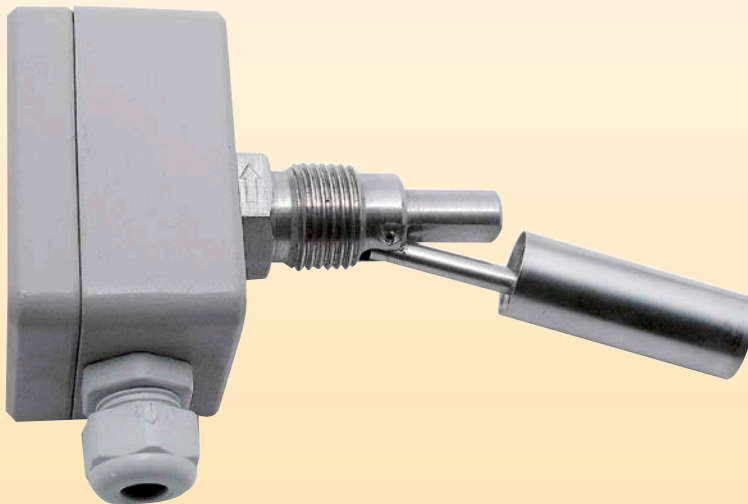


Level Switch



measuring
•
monitoring
•
analysing

RFS



- For side mounting
- Electr. connection: EN 175301-803 connector, aluminium housing connection
- Stainless steel 1.4301 or 1.4404
- Can be mounted as N/C or N/O contact
- For ATEX applications



KOBOLD companies worldwide:

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Description

The RFS series from Kobold are designed for level monitoring of liquids in tanks or small vessels. The liquid must not contain solids or metallic particles.

A pivoted st. st. float with an inserted magnet moves up and down with the level of the liquid. The magnet switches a reed contact.

Depending on the mounting position of the device, the contact operates as N/O or N/C contact. The devices are delivered for side mounting in commercially available sleeves.

Product highlights

- Long service life, wear-free reed contact technology
- Material st. st. 1.4301 (standard) or st. st. 1.4404
- Side mounting
- N/O or N/C depending on mounting position of device
- Reed contacts with high switching power
- Process connection 1/2" NPT (standard) or G 1/2
- Electrical connection: EN 175301-803 connector, aluminium housing
- ATEX Approval

Technical Details

Mounting type: external
 Installation position: horizontal
 Temp. of medium: -40 °C ... +120 °C (see models)
 Ambient temp.: -20 °C ... +80 °C
 Operation pressure: 10 bar
 Min. liquid density: >0.8 g/cm³

Materials

Housing: plastic (RFS-12xxxx00..) aluminium (RFS-12xxxx01..)
 Float: stainless steel 1.4404
 Connection: st. st. 1.4301 or st. st. 1.4404
 Process connection: 1/2" NPT or G 1/2
 Contacts: N/O or N/C contact, depending on the mounting position of the device
 Switching voltage: max. 300 V_{AC}/350 V_{DC}
 Ui: 40 V (only RFS-12...EX)
 Switching power: 50 W
 Switching current max.: DC 0.7 A
 AC 0.5 A
 ATEX marking: II 1 GD Ex ia IIC T6 Ga
 Ex ia IIC T85°C Da
 -20 °C ≤ Ta ≤ +60 °C

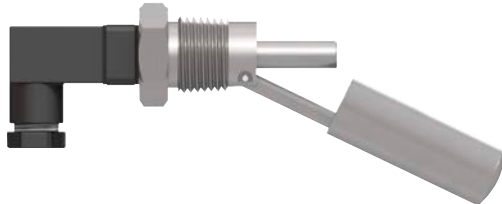
Order Codes (Example: RFS-12 N4 0 0 01 EX)

Model	Process Connection	Material	Temp. Sensor	Housing ²⁾	ATEX
RFS-12	N4 = 1/2" NPT G4 ¹⁾ = G 1/2	0 = st. st. 1.4301 1 ¹⁾ = st. st. 1.4404	0 = without	00 = DIN 43650	00 = no ATEX
				01 = aluminium	00 = no ATEX EX = ATEX Ex ia

¹⁾ on request

²⁾ M12 plug connection with/without 2x wire Pt100 on request

RFS-12...0000

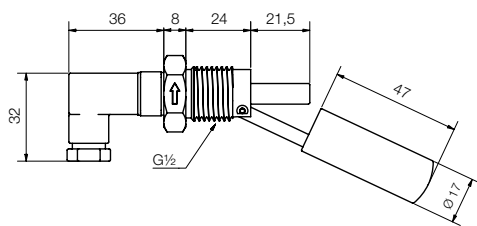


Technical Details

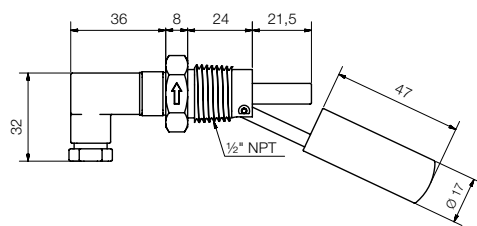
Mounting type: external
 Process connection: ½" NPT or G ½
 Stem: 1.4301 or 1.4404
 Float: Ø17 x 47 - 1.4404
 Temp. of medium: -40 °C... +120 °C
 P_{max}: 10 bar
 Min. liquid density: >0.8 g/cm³
 Switching power max.: 50 W
 Switching voltage max.: 300 V_{AC}/350 V_{DC}
 Switching current max.: DC 0.7 A
 AC 0.5 A
 Electrical connection: Connector DIN 43650
 (EN 175301-803)
 Protection: IP65

Dimensions [mm]

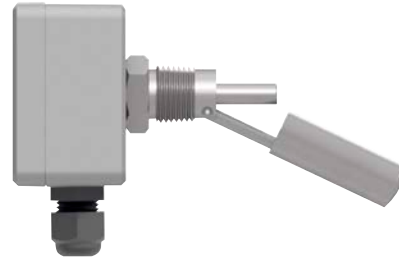
RFS-12G4_00000



RFS-12N4_00000



RFS-12...0100

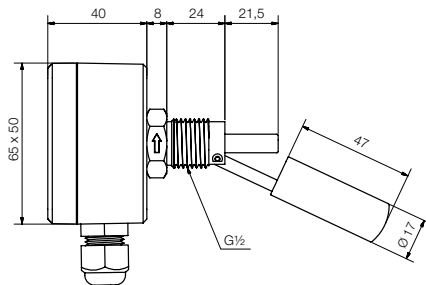


Technical Details

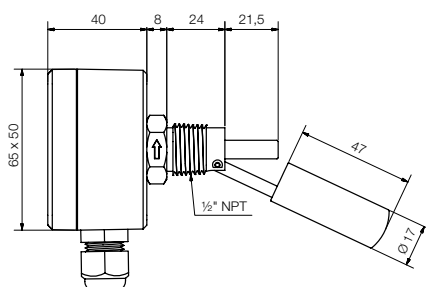
Mounting type: external
 Process connection: ½" NPT or G ½
 Stem: 1.4301 or 1.4404
 Float: Ø17 x 47 - 1.4404
 Temp. of medium: -40 °C... +120 °C
 P_{max}: 10 bar
 Min. liquid density: >0.8 g/cm³
 Switching power max.: 50 W
 Switching voltage max.: 300 V_{AC}/350 V_{DC}
 Switching current max.: DC 0.7 A
 AC 0.5 A
 Electrical connection: aluminium box
 Protection: IP65

Dimensions [mm]

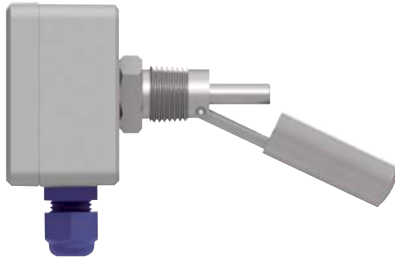
RFS-12G4_00100



RFS-12N4_00100



RFS-12...01EX

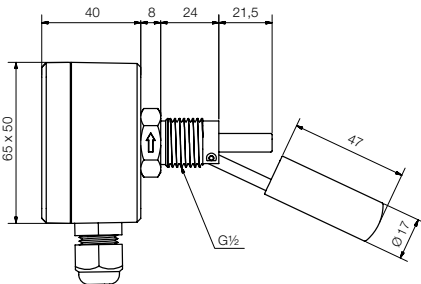


Technical Details

Mounting type:	external
Process connection:	½" NPT or G ½
Stem:	1.4301 or 1.4404
Float:	Ø17 x 47 - 1.4404
Temp. of medium:	-40 °C... +120 °C
p _{max} :	10 bar
Min. liquid density:	>0.8 g/cm ³
Switching power max.:	50 W
Switching voltage max.:	U _i : 40 V
Switching current max.:	DC 0.7 A AC 0.5 A
Electrical connection:	aluminium box
Protection:	IP 65
ATEX marking:	II 1 GD Ex ia IIC T6 Ga Ex ia IIC T85°C Da -20 °C ≤ T _a ≤ +60 °C

Dimensions [mm]

RFS-12G4_001EX



RFS-12N4_001EX

