

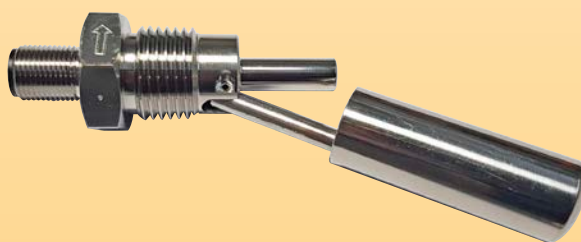
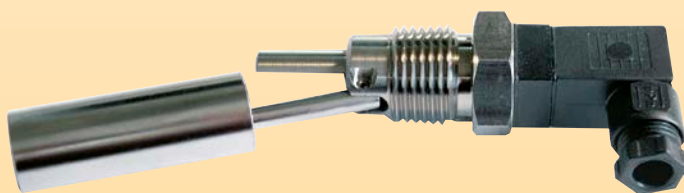
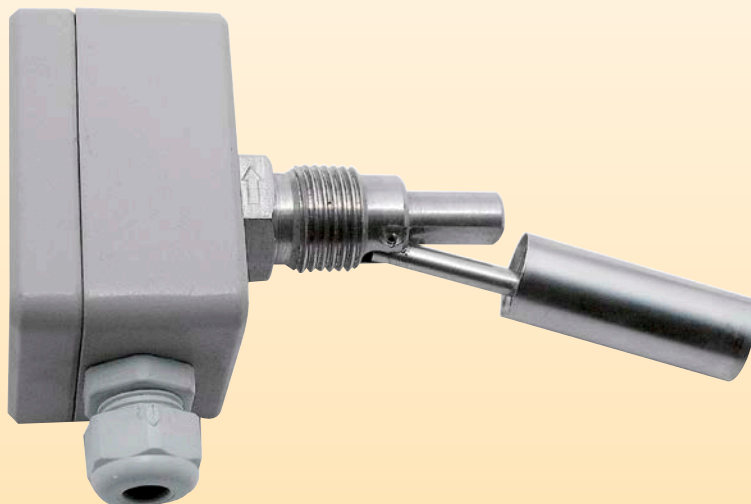


## Level Switch



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



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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/cm<sup>3</sup>

**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<sub>AC</sub>/350 V<sub>DC</sub>  
 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

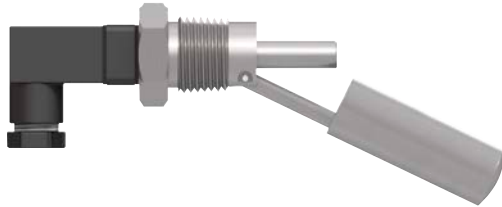
**Order Codes** (Example: RFS-12 N4 0 0 01 EX)

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

<sup>1)</sup> on request

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

**RFS-12...0000**

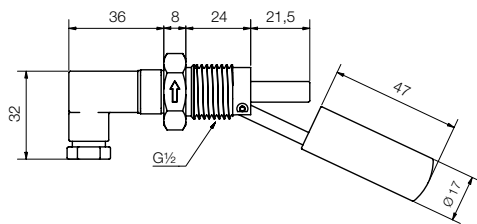


**Technical Details**

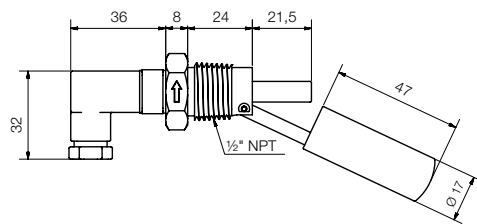
Mounting type: external  
 Process connection: ½" NPT or G ½  
 Stem: 1.4301 or 1.4404  
 Float: Ø17 x 47 - 1.4404  
 Temp. of medium: -40 °C... +120 °C  
 P<sub>max</sub>: 10 bar  
 Min. liquid density: >0.8 g/cm<sup>3</sup>  
 Switching power max.: 50 W  
 Switching voltage max.: 300 V<sub>AC</sub>/350 V<sub>DC</sub>  
 Switching current max.: DC 0.7 A  
 AC 0.5 A  
 Electrical connection: Connector DIN 43650  
 (EN 175301-803)  
 Protection: IP65

**Dimensions [mm]**

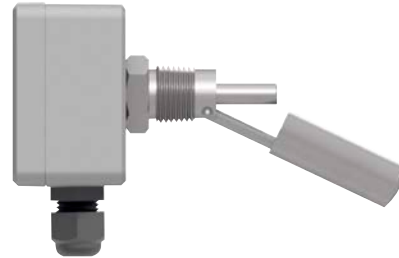
**RFS-12G4\_00000**



**RFS-12N4\_00000**



**RFS-12...0100**

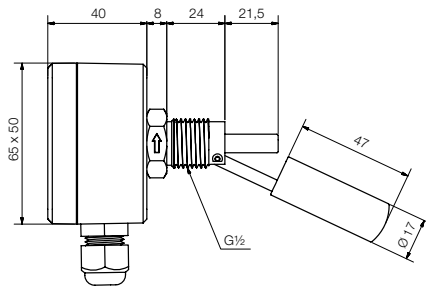


**Technical Details**

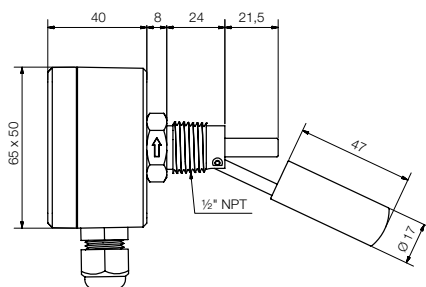
Mounting type: external  
 Process connection: ½" NPT or G ½  
 Stem: 1.4301 or 1.4404  
 Float: Ø17 x 47 - 1.4404  
 Temp. of medium: -40 °C... +120 °C  
 P<sub>max</sub>: 10 bar  
 Min. liquid density: >0.8 g/cm<sup>3</sup>  
 Switching power max.: 50 W  
 Switching voltage max.: 300 V<sub>AC</sub>/350 V<sub>DC</sub>  
 Switching current max.: DC 0.7 A  
 AC 0.5 A  
 Electrical connection: aluminium box  
 Protection: IP65

**Dimensions [mm]**

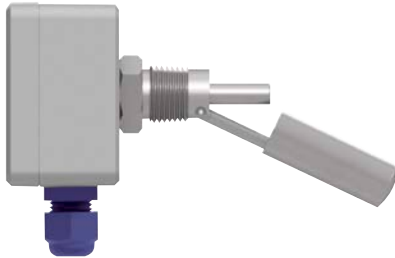
**RFS-12G4\_00100**



**RFS-12N4\_00100**



**RFS-12...01EX**

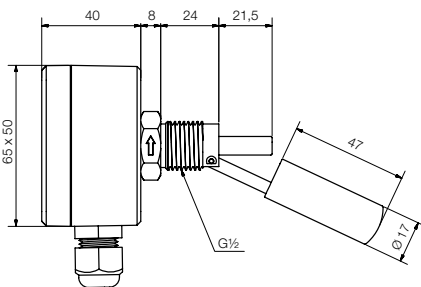


**Technical Details**

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 <sub>max</sub> :	10 bar
Min. liquid density:	>0.8 g/cm <sup>3</sup>
Switching power max.:	50 W
Switching voltage max.:	U <sub>i</sub> : 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 <sub>a</sub> ≤ +60 °C

**Dimensions [mm]**

**RFS-12G4\_001EX**



**RFS-12N4\_001EX**

