# **FK12**

# **Conductive Level Switch for Food Applications**

- simple mounting
- robust plastic or stainless steel housing
- milk-pipe connection DN 25-DN 50 or G 1/2 – G 1 1/2 with front flush O-Ring gasket and weld in socket
- single or multiple electrodes (up to 5 switching points)
- electrode rods from stainless steel, titanium or Hastelloy B or C (up to 2500 mm length)
- max. pressure: 20 bar, max. temperature: 100 °C



#### **Description:**

The conductive level switches of the model series FK12 are suitable to detect the level of conductible liquids along with the electrode relay FKE.

An alternating current is connected to an electrode insulated of the vessels casing. If this electrode is wetted a small current flows from the electrode to the casing of the vessel (in the case of plastic vessels, a separate common ground electrode is used).

This current is detected by the electrode relay and output as a switching signal.

#### **Typical applications:**

- For level detection in tanks with conductive liquids
- Full- and empty-signal
- Level control between two levels
- Overflow protection
- Dry run protection

#### Advantages:

- No moving parts
- · Independent from the specific weight of the medium



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### **Models:**

FK12: single or multiple electrode with fixed screw in thread in a plastic housing, stainless steel housing with milk pipe connection DN 25-DN 50 (union nut) acc. to DIN 11851 or G 1/2 - G 1 1/2 with front flush O-Ringgasket and weld-in socket.

## **Technical Data:**

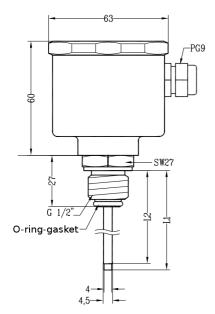
max. pressure: 20 bar Medium-temperature: -20 °C... +100 °C **Protection class:** IP65

### Werkstoffe:

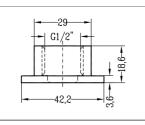
Connection housing:	POM, polypropylene, PTFE, stainless steel 1.4404						
Process Connection:	stainless steel 1.4571						
Rod:	stainless steel 1.4571, Hastelloy B, Hastelloy C, Titan						
Coating:	polyamide, ETFE						

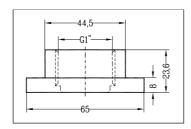
#### **Dimensions:**

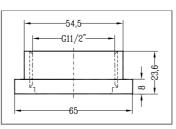




### **Dimensions of the weld-in socket:**







ousing:	POM, polypropylene, PTFE, stainless steel 1.4404						
ection:	stainless steel 1.4571						
	stainless steel 1.4571, Hastelloy Hastelloy C, Titan						
	polyamide, ETFE						
-K12.1.4							
63							
	PG9						
-							
	C WOY						

# **Order Code:**

Order number:	FK12.	1.	1.	1.	1.	1.	2.	LA.
Conductive level switch for food applications								
Material connection hous     1 = polypropylene big (standar     2 = polypropylene small     3 = POM     4 = PTFE small     5 = PTFE big     6 = stainless steel 1.4404	-	J						
Process connection: 1 = DN 25 (process connection max 1 electrode 2 = DN 40 (process connection 3 = DN 50 (process connection $4 = G 1/2^*$ (weld-in socket required 5 = G 1 (weld-in socket required 6 = G 1 1/2 (weld-in socket required 5 = G 1 1/2 (weld-in socket required)	n DIN 11 n DIN 11 uired) ed)	851	)					
Number of electrodes:				J				
Electrode material: 1 = stainless steel 1.4404 diam 2 = Hastelloy B (diameter 4 mr 3 = Hastelloy C (diameter 4 mr 4 = titan (diameter 4, 8, 10 mm	n) n)	6, 8	mm	1)	J			
<b>Diameter of electrodes:</b> 1 = 4 mm (Standard) 2 = 6 mm 3 = 8 mm 4 = 10 mm						Ĺ		
<b>Electrode isolation:</b> 2 = ETFE							L	
Electrode length (from so LA = 500 mm LB = 1000 mm LS = customer-specific:	ealing	edg	je):					J

Level

- = without
- 1 = weld-in socket for G 1/2
- 2 = weld-in socket for G 1
- 3 = weld-in socket for G 1 1/2

#### Accessory:

FKE Electronic controller for conductive levels sensors





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