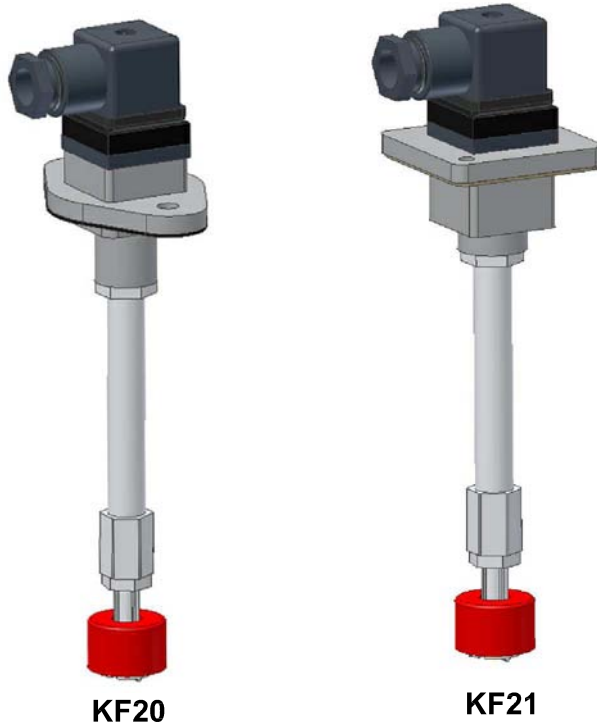


## Level switches with magnetic float

- KF20** - 481.200.000
- KF21** - 481.210.000
- KF23** - 481.230.000
- KF25** - 481.250.000
- KF26** - 481.260.000



**KF20**

**KF21**

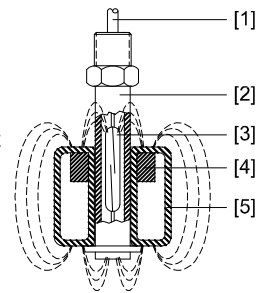
### Application

For the monitoring of oil level in tanks (maximum viscosity 1500 cSt).

### Operation

A float equipped with a permanent magnet fluctuates with the level of liquid and works magnetically over a contact assembled and hermetically sealed inside a guide pipe.

- [1] electric connection
- [2] guide pipe
- [3] reed contact
- [4] permanent magnet
- [5] float



**KF26**

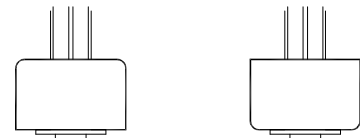
**KF23**

**KF25**

### Detection types

- [A] : 1 level detection (NO contact)
- [B] : 1 level contact (NC contact)

By reversing the position of the float over the guide pipe the position of the contact is modified: from open to closed and viceversa.



Round edges upwards:  
NO contact

Round edges downwards:  
NC contact

### Technical characteristics

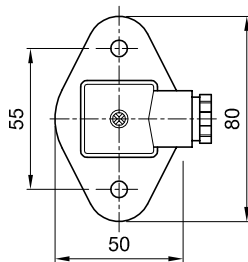
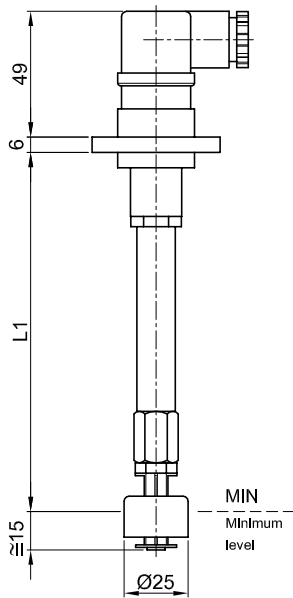
Pipe guide material..... depending on model  
 Float material..... nylon void  
 Temperature range..... -20°C...+80°C  
 Assembly position..... ± 10° vertical  
 Protection degree..... IP54  
 Maximum pressure..... 3 bar  
 Reed switch:  
 Voltage..... 230 VUC  
 Connection..... 0,5 A  
 Power breakdown..... 20 W

### Warning

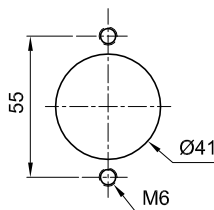
High input voltage (voltage peaks), inductive or capacitive loads may affect negatively the operation of reed contacts and they could even destroy them.

Under certain circumstances this energy can be transformed into an electric arc that can cause contact welding therefore it is appropriate to install protective circuits such as diodes or RC elements.

**KF20**

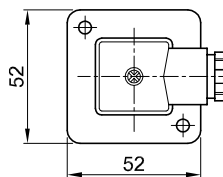
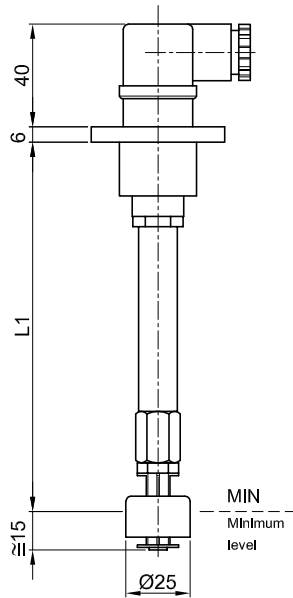


Accommodation dimensions:

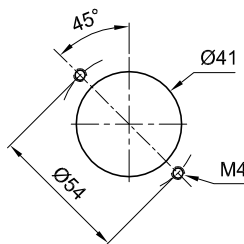


Guide pipe material: **nylon**  
 Float material: **nylon hueco**  
 Mounting flange material: **nylon**  
 Sealing joint: **NBR**  
 Connector DIN EN 175301-803  
 (formerly DIN43650) M16x1.5

**KF21**

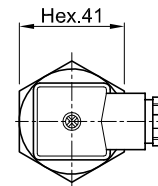
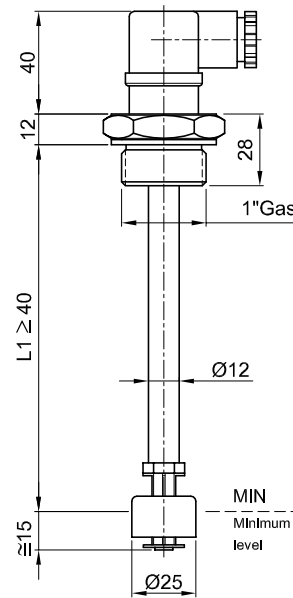


Accommodation dimensions:



Guide pipe material: **nylon**  
 Float material: **nylon void**  
 Mounting flange material: **nylon**  
 Sealing joint: **NBR**  
 Connector DIN EN 175301-803  
 (formerly DIN43650) M16x1.5

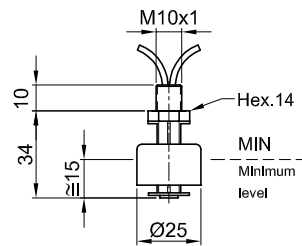
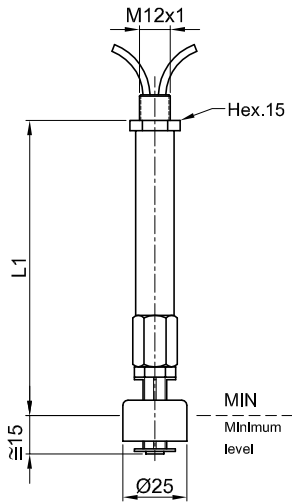
**KF23**



Guide pipe material: **brass**  
 Float material: **nylon void**  
 Mounting flange: **thread 1"Gas**  
 Sealing joint: **copper washer**  
 Connector DIN EN 175301-803  
 (formerly DIN43650) M16x1.5

**KF25**


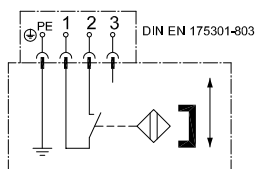
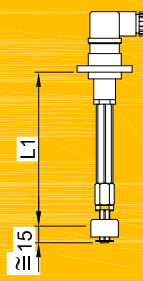

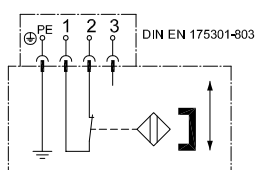
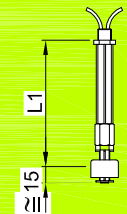
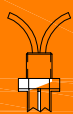
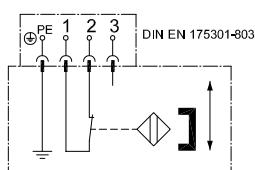
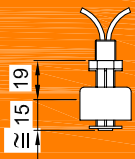
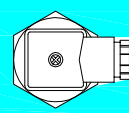
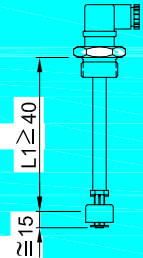
**KF26**



Guide pipe material: **nylon**  
Float material: **nylon void**  
Mounting flange: **thread M12x1**  
Cable connection

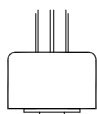
Guide pipe material: **nylon**  
Float material: **nylon void**  
Mounting flange: **thread M10x1**  
Cable connection

KF X / X - X / ..(L1)...

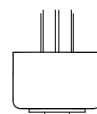
Model	Type (operation)	Connection	L1 (mm)
 <p>KF20 KF21</p>	<p><b>A</b></p> <p>Minimum level detection with NO contact</p> <p>When the oil level falls to minimum the float opens contact 1-2.</p> 	1	 <p>110 140 160 190</p>
 <p>KF25</p>	<p><b>B</b></p> <p>Minimum level detection with NC contact</p> <p>When the oil level falls to minimum the float closes contact 1-2.</p> 	6	 <p>87 115 137 165 187 215</p>
 <p>KF26</p>		5	 <p>19</p>
 <p>KF23</p>		1	<p>Indicar en mm</p>  <p><math>L1 \geq 40</math></p>

The diagrams shown refer to levels assembled in tanks without oil (minimum level contact activated).

By reversing the position of the float over the guide pipe the position of the contact is modified: from open to closed and viceversa.



Round edges upwards: NO contact



Round edges downwards: NC contact