Atek Alfa

FLOAT LEVEL SENSOR

AFS 110

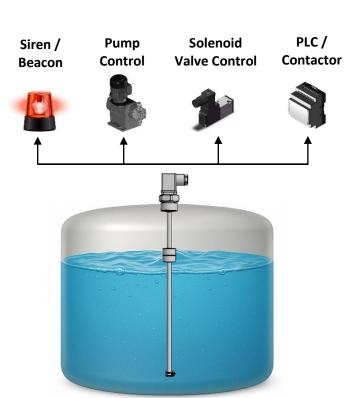
"Level control with float, various options for immersion length, mechanical connection, switch type, and float type "



- Various immersion length options from 75 mm to 500 mm
- Wide range of customizable features (mechanical connection type, electrical connection, material type, etc.)
- Various switch and float options
- Maximum reliability thanks to high-quality reed contacts
- Fast and easy installation

In AFS 110 series float level sensors, a magnet-equipped float moves along the tube in response to the liquid level. When the float reaches the position of the reed sensor, the magnetic field generated by the magnet opens or closes the electrical circuit. In this way, a change occurs in the circuit when the liquid reaches a specific level.

This change in the reed sensor can be interpreted via a relay circuit or a control device as an alarm or level signal. As a result, the system status can be continuously monitored, and real-time information can be provided to the user.



APPLICATION AREAS

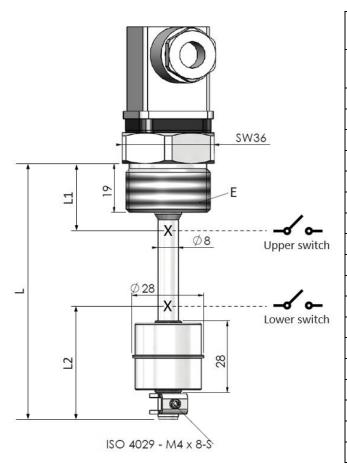
The AFS 110 series level sensors are used across a wide range of industries, from industrial automation to food production, ensuring accurate monitoring and control of liquid levels. They are utilized in various fields such as water treatment plants, mobile hydraulic systems, the food and beverage industry, and the chemical and pharmaceutical industries, including:

- Tank level measurement and control
- Boiler control
- Drinking water or wastewater level control
- Hydraulic oil tank level measurement and control
- And more.

TECHNICAL FEATURES

ELECTRICAL DATA				
Measurement Principle	The reed contacts are triggered by a magnet in the float (The lower contact is activated when the float moves approximately 15 mm)			
Switch Output	SPDT - NO, NC Change-Over	SPST-NO		
Contact Voltage	150 VDC / 150 VAC	200V AC/DC		
Contact Current	1A (AC/DC) / 20VA	1A AC/DC		
Number of Switches	1 (standard), multiple switches available upon request			
Electrical Connection	Cable or DIN43650-A connector			
MECHANICAL DATA				
Immersion Pipe Length (L)	Different options from 75mm to 500mm (thread included) (optional others)			
Contact Distance (L1)	Can be specified by the customer in accordance with the immersion length			
Process Connection (E)	G1/2, G1/4, M20x1.5, M14x1, G1" (optional others)			
Immersion Pipe Diameter (D)	8mm (optional others)			
Number of Floats	1 (optional others)			
Float Type	See Float Type table (page3)			
	Float: 304 SS			
Material	Wetted parts: 304 SS			
	Pipe: 304 SS			
ENVIRONMENTAL DATA				
Protection Class	IP65			
Working Temperature	-40°C +125°C			

MECHANICAL DIMENSIONS (mm)



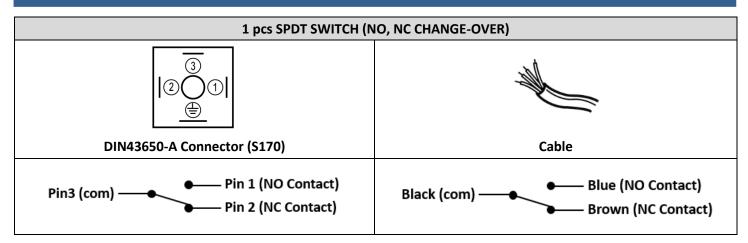
Immersion Pipe Length	Upper Switch	Lower Switch	Process Connection
L (mm) (thread included)	L1 (mm) (thread included)	L2 (mm)	E
75			
100			
125	Customer- specified	41 (std)	G1/2 G1/4 M20x1.5 M14x1 G1"
150			
175			
200			
225			
250			
275			
300			
325			
350			
375			
400			
425			
450			
475			
500			

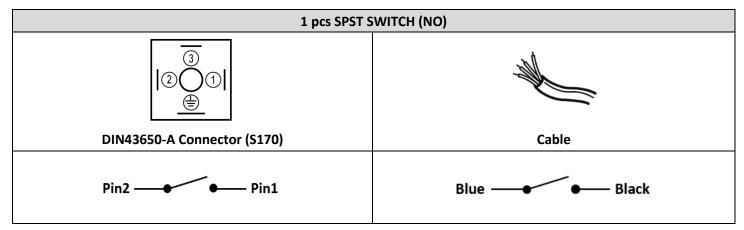
DS-AFS.002 Rev No:2

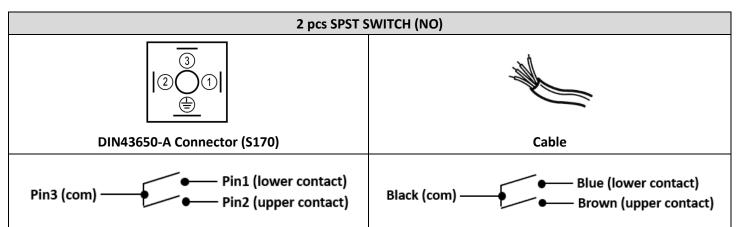
FLOAT TYPE

Model	Picture	Description
F1M1 (standard)		Dimensions: 28 x 28 x 9,5 mm Material: 304 SS
F2M1		Dimensions: 38 x 26 x 9,5 mm Material: 304 SS

ELECTRICAL CONNECTIONS







DS-AFS.002 Rev No:2

ORDER CODE

450: 450mm

1-Model

AFS 110

2- Immersion Pipe Length (mm) (L)

 075: 75mm
 175: 175mm
 275: 275mm
 375: 375mm
 475: 475mm

 100: 100mm
 200: 200mm
 300: 300mm
 400: 400mm
 500: 500mm

 125: 125mm
 225: 225mm
 325: 325mm
 425: 425mm

350: 350mm

150: 150mm
*Thread included

3- Immersion Pipe Diameter (mm) (ØD)

250: 250mm

08:8 mm

*Please ask for other options

4- Number of Switches

1: 1 pcs (std.)

2: 2 pcs

*A single SPDT relay type is available as standard. For the SPST relay type, one or more units can be selected optionally.

*Please ask for other options

5- Switch Type

R1: SPDT relay
R2: SPST-NO relay

*Please ask for other options

6-Upper Switch Distance (mm) (L1)

*It can be selected at the distance requested by the customer. It should be chosen in accordance with the immersion length.

*Thread included

Note: The upper switch distance (L1) can only be specified when the number of contacts is 2 or more. If only 1 contact is selected, the upper switch distance (L1) cannot be specified and the code for this field must be entered as "0".

7- Number of Floats

1: 1 pcs (std.)

2: 2 pcs

*It should be selected according to the connection and radius.

*Please ask for other options

8- Float Type

F1M1: 28 x 28 x 9,5mm 304 SS (std.) **F2M2**: 38 x 26 x 9,5mm 304 SS

*It should be selected according to the connection and radius.

*Please ask for other options

9- Process Connection (E)

G1/4 : G1/4 M14 : M14x1 G1/2 : G1/2 M20 : M20X1,5

G1 : G1"

*Please ask for other options

10- Electrical Connection

\$170: DIN43650-A **1M**: 1 meters cable

*Please ask for other options

11- Material

E304: 304 SS (std.)

*Please ask for other options

SAMPLE ORDER CODE: AFS 110 - 100 - 08 - 1 - R1 - 30 - 1 - F1M1 - G1/4 - S170 - E304

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^{*}Please ask for other options