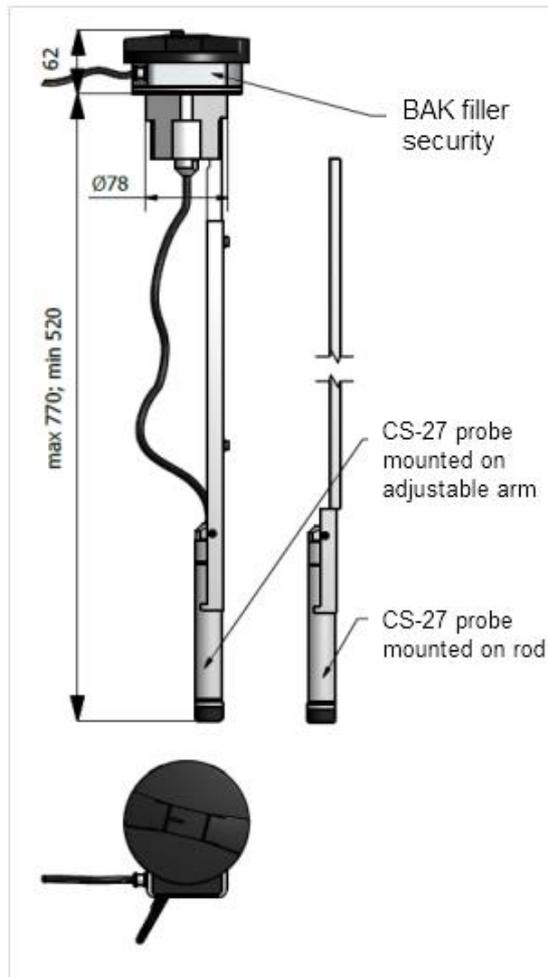


## Hydrostatic fuel level probe For installation on the fuel filler CS-27/W; CS-27/BAK

- ✓ Easy assembling the level probes on the tank fuel filler.
- ✓ Elimination of the holes boring in the tank.
- ✓ Additional sygnalization of the tank filler opening possibility.
- ✓ Regulation and bendig of the rod possibility.



### Structure

The CS-27/W hydrostatic fuel probe is designed for fuel level measurement in fuel tanks on vehicles, machinery and locomotives. The CS-27/BAK is a combination of the CS-27/W probe with a BAK filler security for monitoring access to the fuel filler on trucks, machinery, construction vehicles and others, optionally with additional event signaling system for the driver.

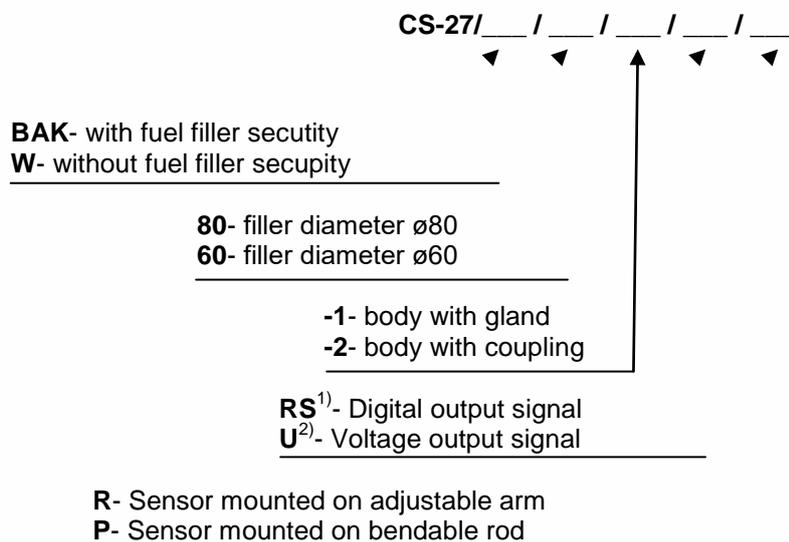
### Structure and operation

The CS-27/W fuel level probe measures the hydrostatic pressure of liquid, whose values is proportional to the height of the column of liquid. The measuring element is a piezoresistive sensor separated from the medium with a separating membrane. Pressure measurement is done at the separating membrane of the submerged probe (5÷10mm above tank bottom) and related to atmospheric pressure or pressure inside the tank using a hose located inside a conduit. The electronic system is located in a steel housing of the sensor. The sensor is mounted with an extendable arm to aluminum housing which can be sealed. The CS-27/BAK itself has additional BAK fuel filler security. It is secured with monitoring of the presence of a transponder located in the fuel cap, above the CS-27/W probe mounted on the filler. The system alerts of removing the fuel cap as a change of output status, as well as sabotaging, cutting the wire, through signal loss in the communication conduit which can be connected to a monitoring system and/or to „CABIN SIGNALLING MODULE”.

## Technical parameters

<b>Measurement range</b>	0÷2000mm ON
<b>Arm length In tank</b>	max 770mm (custom made up to 2000mm)
<b>Maximum range overload</b>	≤ 100kPa
<b>Fundamental error</b>	≤ 0,16%
<b>Hysteresis, repeatability</b>	≤ 0,05%
<b>Working temperature range</b>	-25 ÷ 80°C
<b>Compensation temperature range</b>	-25 ÷ 50°C
<b>Power voltage</b>	8 ÷ 32VDC
<b>Power intake:</b>	
- with BAK fuel filler security	< 75mA
- without BAK fuel filler security	< 25mA
<b>Analogue output Signac for probe</b>	U/CS = (0,05...10)V
<b>Binary output Signac for fuel filler security</b>	U/BAK = (0,002...0,9) Uzas
<b>RS-485 input/output signal:</b>	
- differentia output voltage	min. ±1,5V
- input voltage	min. ±0,2V
<b>RS-232LV input/output signal:</b>	
- TXD output signal	HI > 3,0V; LO < 0,2V
- RXD input signal	HI > 2,0V; LO < 0,8V
<b>Housing protection class</b>	IP 68
<b>Relative humidity</b>	30...90%
<b>Atmospheric pressure</b>	80...120 kPa
<b>Working position</b>	Vertical

## Ordering method



- 1) With digital output Signac (RS), state interface type: 232 or 485.  
 2) With voltage output Signac (U), stste voltage value: 0...10V or other.

### Example marking:

**CS-27/BAK/80/1/RS-485/R** Fuel level probe with filler security, filler diameter ø80, body with gland, with RS-485 digital output, adjustable arm.

**CS-27/W/80/2/U-0-10V/P** Fuel level probe without filler security, filler diameter ø80, body with coupling, with voltage output 0...10V, bendable rod.