

## Potentiometric liquid-level measuring device BM 500



- independent of product properties
- immune to deposits and foam
- particularly suitable for small tanks
- defined empty signalling function
- hygienic installation
- fast response time
- Level measurement possible from 50 mm

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Variable area flowmeters

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Vortex flowmeters

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Flow controllers

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Electromagnetic flowmeters

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Ultrasonic flowmeters

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Mass flowmeters

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**Level measuring instruments**

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Communications technology

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Engineering systems & solutions

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Switches, counters, displays and recorders

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Heat metering

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Pressure and temperature

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## BM 500

The **BM 500** level gauge operates on the potentiometric measuring principle and is designed for use in all electrically conductive products with a minimum conductivity of 1  $\mu\text{S}/\text{cm}$  (e.g. distilled water).

This method is particularly suitable for measuring levels in small vessels containing viscous, pasty or heavily caking products. The electronic evaluation unit is integrated in the connecting head and supplies a level-proportional output signal of 4 ... 20 mA.

The HWM 500 hygienic process welding sleeve ensures installation in conformity with standards of hygiene. Due to its high temperature resistance (140°C), the **BM 500** is eminently suitable for CIP cleaning and sterilizing processes.

### Fields of application

- Fruit juice
- Ketchup
- Beer
- Toothpaste
- Dairy products

### Technical data

<b>Primary head</b>	BM 500
<b>Operating principle</b>	potentiometric level measurement
<b>Process conditions</b>	
Pressure	-1 ... 10 barg
Process temperature	-20...+140°C
Conductivity	$\geq 1 \mu\text{S}/\text{cm}$
<b>Materials</b>	
Sensor	stainless steel 1.4571, 10 mm dia.
Housing	stainless steel 1.4305
Insulating	PEEK (FDA accepted)
<b>Versions</b>	
Length of sensor	200 ... 2000 mm
<b>Process connection</b>	
Screwed joint	G 1" h
<b>Installation position</b>	from bottom to top, automatic identification of bottom/top

<b>Electronic unit</b>	
Current output	4 ... 20 mA, load impedance max. 500 $\Omega$
Supply power	18 ... 36 V DC, 120 mA
Accuracy	< 1% of sensor length
Repeatability	< 0.5%
<b>Electrical connection</b>	cable gland M16 or M12 plug
<b>Type of protection</b>	IP 67

### Accessories

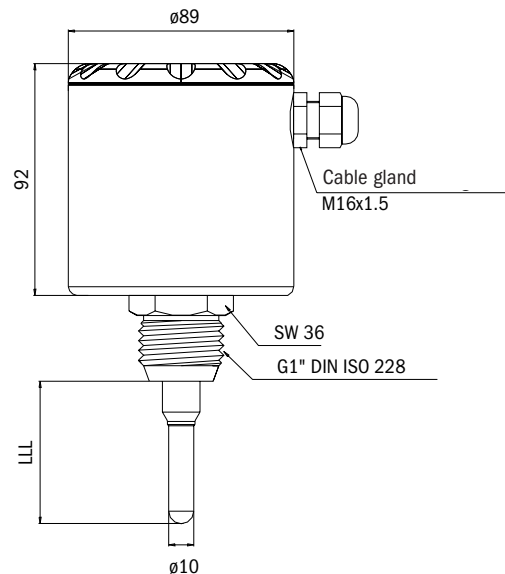
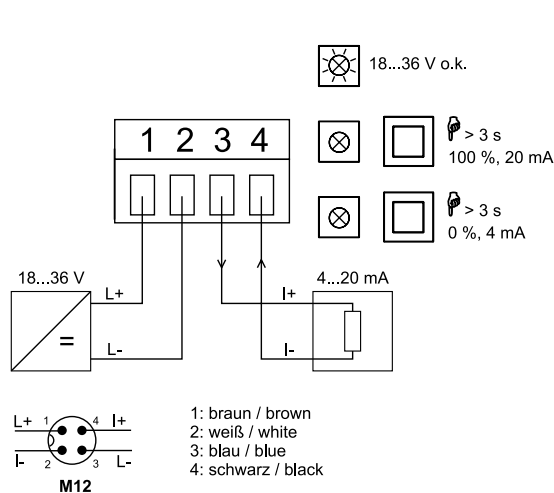
#### Welding sleeve HWN 500

Hygienic sleeve of stainless steel 1.4571, with welding mark for defined alignment of cable gland or M12 plug.

Hygienic adapter sleeves available for other process connections

Adapter sleeve available.

### Dimensions



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