

LIMIT VALUE SWITCH BAMOSWITCH



- All-plastic version
- For electrically conductive media
- Compact design
- Insensitive to shocks
- Calibration free

APPLICATION

BAMOSWITCH is a limit switch for use in containers and collection pans for electrically conductive liquids.

DESCRIPTION

The device is suitable for use with electrically conductive liquid whose impedance is $< 5 \text{ k}\Omega$ or whose coupling capacitance to earth is $> 50 \text{ pF}$. The liquids must not form insulating or conductive deposits.

BAMOSWITCH has two operating modes:

- **MAX:**
The output contact remains closed as long as the sensor tip is free.
- **MIN:**
The output contact remains closed as long as the sensor tip is touched by the liquid.

TECHNICAL DATA

Operating principle	capacitive-high-frequency
Ambient temperature	$-20 \dots +80 \text{ }^{\circ}\text{C}$
Operating pressure	$0 \dots 1 \text{ bar}$
Installation dimension	Standard 69 mm or 125 mm (others on request)
Material	PP
Connection	Connector DIN EN 175301-803-A For cables $\varnothing 4.5$ to 10 mm (cable gland M16x1.5mm)
Protection	IP65 according to EN60 529
Process connection	BSP 1" (others on request)
Supply voltage	$15 \dots 27 \text{ V DC}$
Power consumption	$< 0.5 \text{ W}$
Output	3-wire DC PNP max. 200 mA
Cable length	Measuring circuit max. 300 m (Min. 0.5 mm^2)
Operating mode	MIN or MAX (by wiring)
Reverse polarity protection	if the polarity is reversed, the unit is automatically deactivated
Overload / short circuit protection	If the load exceeds 250 mA, the output is automatically deactivated; Once the overload is eliminated, normal operation is resumed after a few seconds.

EC Conformity: The device meets the legal requirements of the current European Directives.

BAMO INTERNATIONAL

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LIMIT VALUE SWITCH
BAMOSWITCH

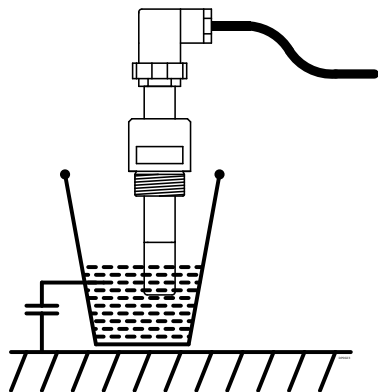
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NOTE



The BAMOSWITCH requires a correct impedance connection of the liquid to the earth potential for a good operation.

The impedance of the liquid to ground potential must not exceed a limit value of 5 kOhm or fall below a coupling capacity of 50 pF.

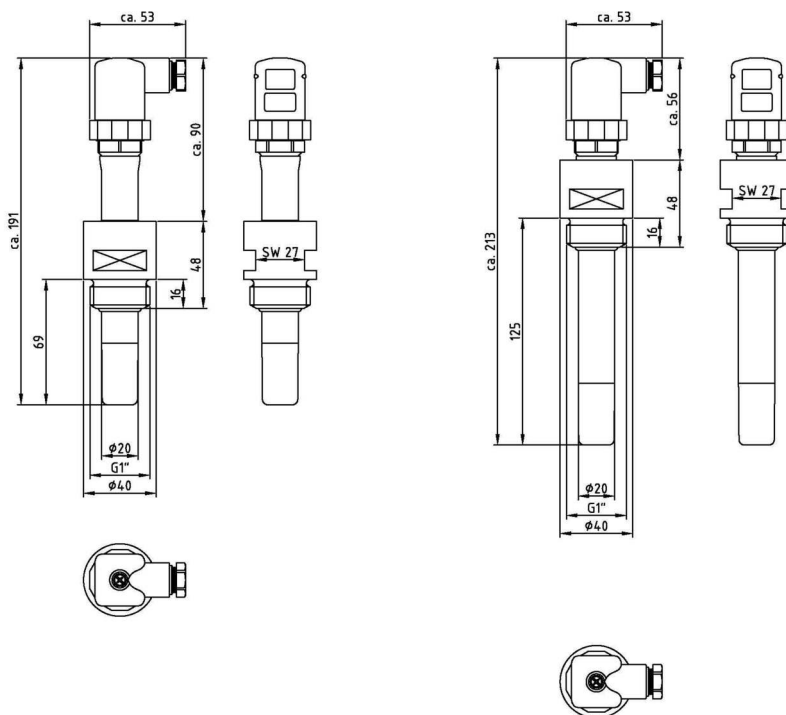
A 50 litre container standing on the floor will surely meet this condition (full of conductive liquid).

The device is not suitable for monitoring small amounts of liquid.

ORDER INFORMATION

Code	Model	Description
514 100	BAMOSWITCH PP G 1" L = 69 mm	Limit switch PP, BSP 1"; Installation length 69 mm
514 101	BAMOSWITCH PP G 1" L = 125 mm	Limit switch PP, BSP 1"; Installation length 125 mm
514 105	BAMOSWITCH PP G 1" Long version Max. 300 mm	Limit switch PP, BSP 1"; Installation length up to 300 mm Desired length to confirm on the purchase order.

DIMENSIONS



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