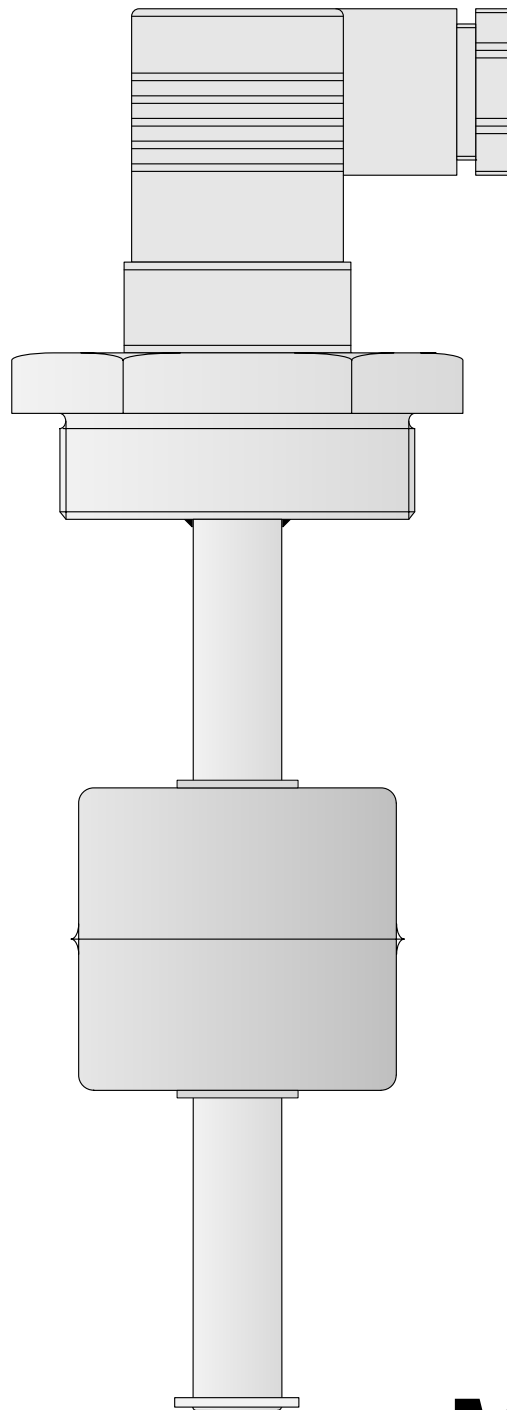


# Filling Level Sensor



**MWA 1**

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# MWA 1 Filling Level Sensor

## Description

KROMA MWA 1 filling level sensors are designed to continuously measure liquid levels of tanks by means of a float. All parts which make contact with the liquid are made of stainless steel. The sensor can be furnished with different connecting elements (AA) and sliding pipes up to three meters long (L). A magnet inside a ring float serves to switch reed contacts which are potentiometer taps provided in the sliding pipe. The signal available at the electrical output is an analogous resistance signal proportional to the filling level. The distance (grid) between reed contacts is 10 mm or 20 mm. A three-core cable permits direct connection of several KROMA BAZ level indicators, KROMA GWS limit switches or KROMA MWU measuring transformers to one KROMA MWA 1 level sensor.

## Special Features

- Only one moving part - the float
- Completely made of stainless steel
- Variable installation through different connecting elements
- High degree of protection IP 65
- Vibration- and shockproof
- Tested according to German railways' standard BN 411002/EN 50155 (approved for use on rail vehicles)

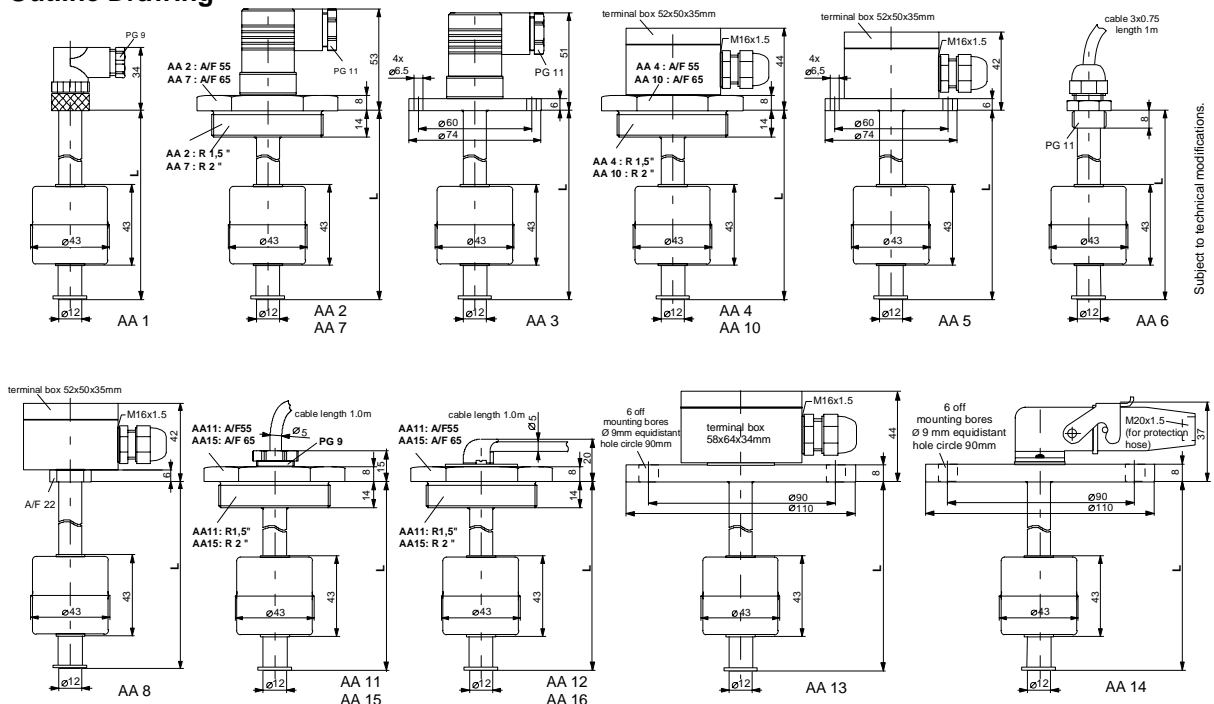
## Technical Data

Total resistance:	2 to 10 k $\Omega$
Supply current:	< 5 mA
Circuit:	Three-wire-potentiometer
Grid:	10 mm or 20 mm, special version 5mm
Sliding pipe:	Length $L_{max} = 3$ m, diameter $D = 12$ mm
Connecting elements:	Refer to outline drawings.
Connection:	Refer to outline drawings.
Liquid temperature range:	-30°C to 55°C
Storage temperature range:	-55°C to 55°C
Operating pressure:	$\leq 6$ bar
Density:	$\geq 800$ kg/m <sup>3</sup>
Vibratory strength:	9.9 m/s <sup>2</sup> (2.3 to 100 Hz), 30 m/s <sup>2</sup> (50 Hz)
Shock resistance:	50 m/s <sup>2</sup>

## Information required with order (typical order)

KROMA **MWA 1** level sensor **MWA 1 . 2 1 0 - 500**  
 Connecting elements "2" = AA2 (for other AAs, refer to overview)  
 Grid "1" = 20 mm, "2" = 10 mm, "3" = 5 mm  
 Mounting position "0" from top, "1" from bottom  
 Length L = **500** mm

## Outline Drawing



Subject to technical modifications.