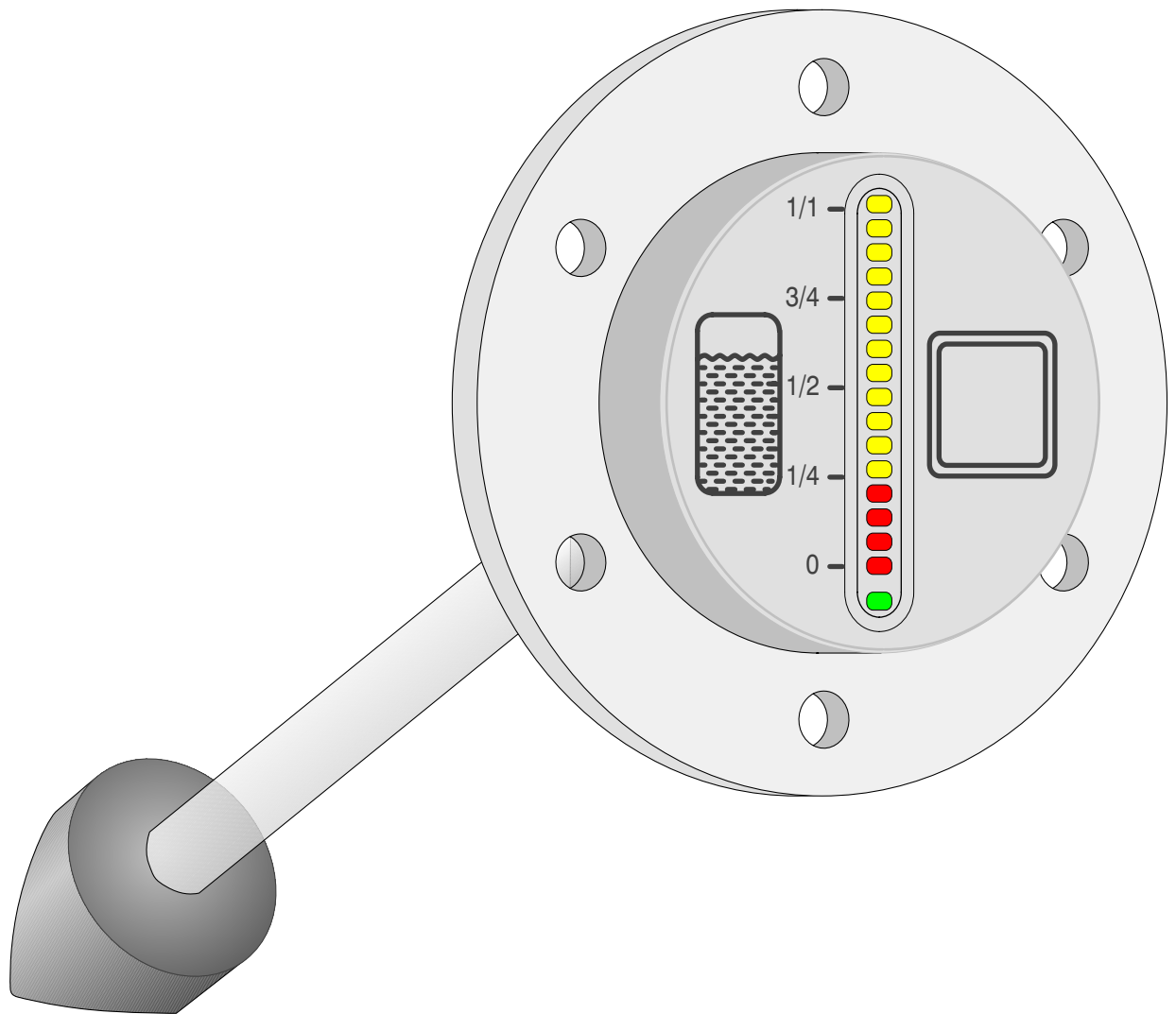


Filling Level Sensor

for lateral mounting

suitable for water and fuel



MWA 5

KROMA

FÜLLSTANDSMESSTECHNIK GmbH

Rostocker Straße 9-10 D-39124 Magdeburg

Telefon: +49(0)391/2538744 Fax: +49(0)391/2538745

E-Mail: info@KROMA.eu Internet: www.KROMA.eu

MWA 5 Filling Level Sensor

Description

KROMA MWA 5 filling level sensors are designed to continuously measure liquid levels of both water and fuel tanks. The MWA 5 is suited for lateral mounting in tanks. Different types of flanges are available to adapt the MWA 5 optimally to the tank. Liquid level measurement is accomplished through a float which is fixed on a lever arm. The angle of the lever arm is measured by a magnetic sensor and transformed to an electrical voltage signal proportional to the filling level.

The length of the lever arm which can be adapted to the particular tank by the MWA 5 manufacturer is dependent on the filling level and the configuration of the tank. On models MWA 5_1_ and MWA 5_5_, the rotation axis of the lever arm is parallel to the seat face of the MWA 5 flange („longitudinally “), whereas on other models, the rotation axis is perpendicular to it („transversely “).

The MWA 5 level sensor can be furnished with a direct LED display. One of KROMA's proven level indicators with piezoelectric pushbutton is accommodated in the cover of the flange. After actuation of the piezoelectric pushbutton, the filling level can be read directly on the MWA 5 level sensor. By pressing the pushbutton, the display can be switched on and off. In the standard configuration, the display automatically switches off after 15 seconds. A longer on-time (up to 960 seconds or infinite) can be programmed by the manufacturer (refer to KROMA BAZ 13).

Regardless of whether a direct display feature is provided, the instrument permits connection of additional KROMA level indicators, adjustable electronic limit switches or measuring transformers (e. g. for connection of board computers).

Special Features

- High accuracy through stepless magnetic transfer
- Reading of the liquid level via direct LED display on the filling level sensor and/or via remote display
- Lateral mounting in the tank side with transversely or longitudinally arranged lever arm
- Made of stainless steel
- Stainless steel float for cooling water, NBR foam float for fuels
- Rugged design tested according to EN50155 (BN 411002) for use on rail vehicles
- Protected as utility model

Technical Data

Operating voltage:	Nominal voltage 24 V DC (tolerance 16V to 60V DC)
Operating current:	10 mA (without display), max. 150 mA (with display)
Static current:	< 0.05 mA
Electrical connection:	Integral traction cable or plug, customized cable length
Measuring range:	min. 300 mm, max. 1,200 mm
Storage temperature range:	-55°C to +70°C
Liquid temperature range:	-40°C to +70°C
Liquid density:	>= 800 kg/m ³
Operating pressure:	<= 2 bar
Vibratory strength:	7.9 m/s ² (5 – 150 Hz)
Shock resistance:	50 m/s ²
Degree of protection:	IP 65
Weight:	Approx. 1.0 kg
Connection:	Refer to outline drawings

Information required with order

KROMA **MWA 5** filling level sensor, basic model configuration **MWA 5 . 1 1 2- 500 - K1,0**

Connecting elements: "1" = round flange Ø110mm, "2" = square flange 112x112mm

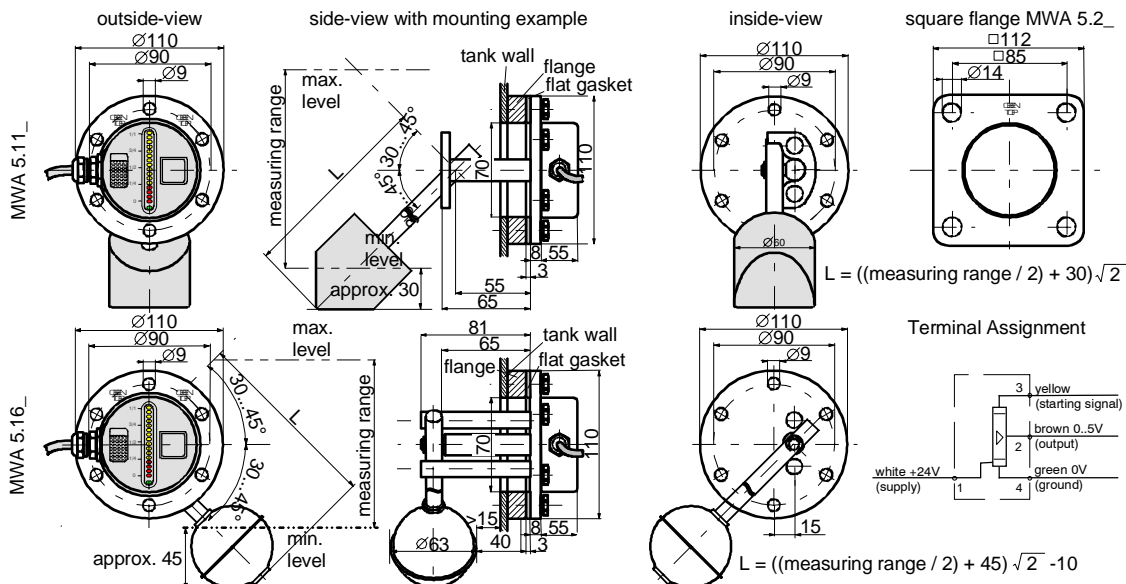
Lever arm: "1" = „longit.“, "2" = „transv. right“, "3" = „transv. left“ with NBR float
 "5" = „longit.“, "6" = „transv. right“, "7" = „transv. left“ with stainless steel float

Direct display: "0" = without display,
 "2" = (15 s) to "8" (960 s) = with LED display (on time as BAZ instrument)

Measuring range: level to be measured in mm, e. g. "500"

Electrical connection: "K"=integral cable, "S"=plug, "l"=left, "r"=right, "1,0"=cable length 1.0 m

Outline Drawing



Subject to technical modifications.