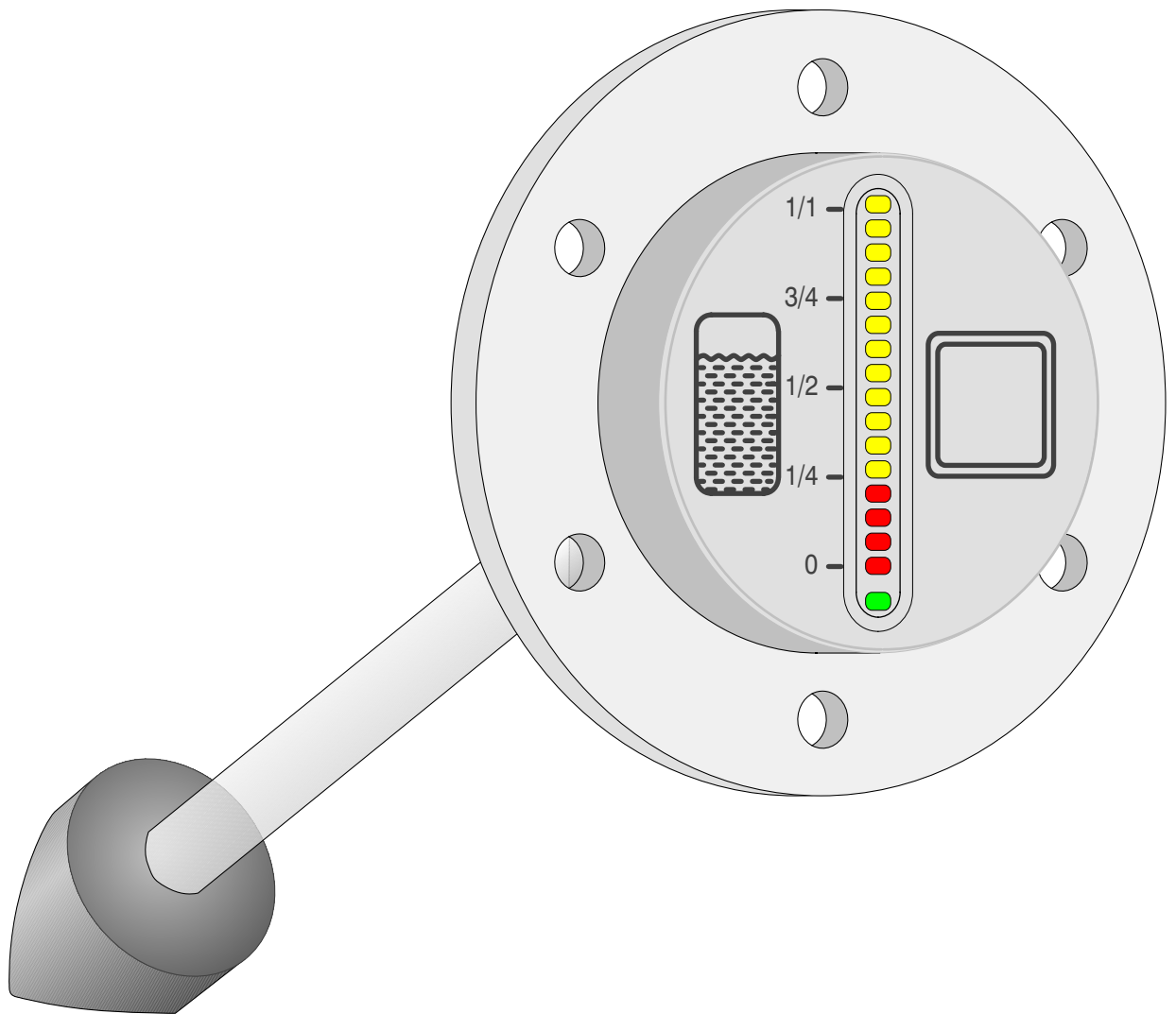


Filling Level Sensor for lateral mounting

with integral maximum and minimum limit contacts



MWAG 5

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MWAG 5 Filling Level Sensor

with integral maximum and minimum limit contacts

Description

KROMA MWAG 5 filling level sensors are designed to continuously measure liquid levels of both water and fuel tanks, while also signalling maximum and minimum levels. The MWAG 5 is suited for lateral mounting in tanks. Different types of flanges are available to adapt the MWAG 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. When the end points of the measuring range are reached, i. e. at the maximum or minimum level, limit contacts are actuated.

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

The MWAG 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 MWAG 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
- Two electrically isolated limit switching contacts for maximum and minimum levels
- 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 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
Limit switching contacts:	Break contact or make contact 60 V, 0,2A, 3VA/W; for maximum and minimum level
Electrical connection:	Integral traction cable, 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 to 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 **MWAG 5** filling level sensor with limit switch **MWAG 5 . 1 1 1 4- 500 - K1,0**

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

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

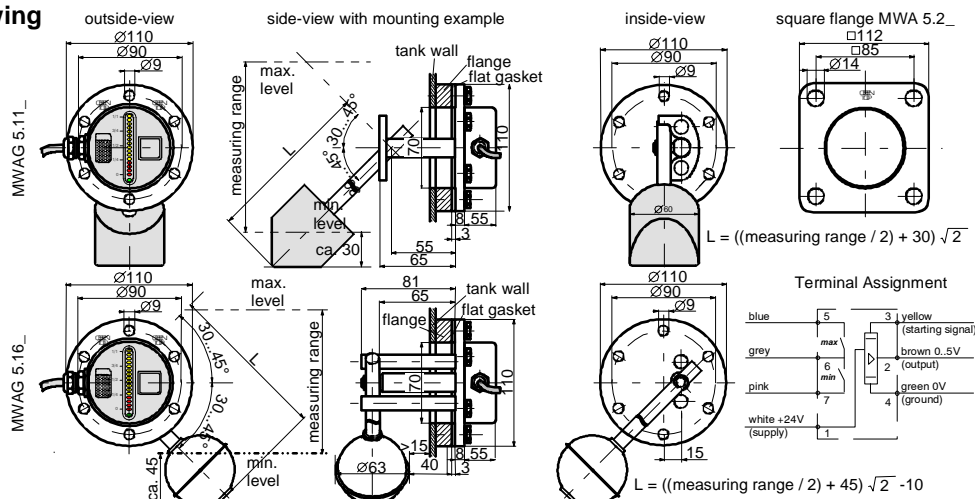
Direct display: "0" = without display, "1" = with LED display

Limit switch: "1" = min. and max. make contact, "2" = min., "3" = max. make contact
"4" = min. and max. break contact, "5" = min., "6" = max. break contact

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

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

Outline Drawing



Subject to technical modifications.