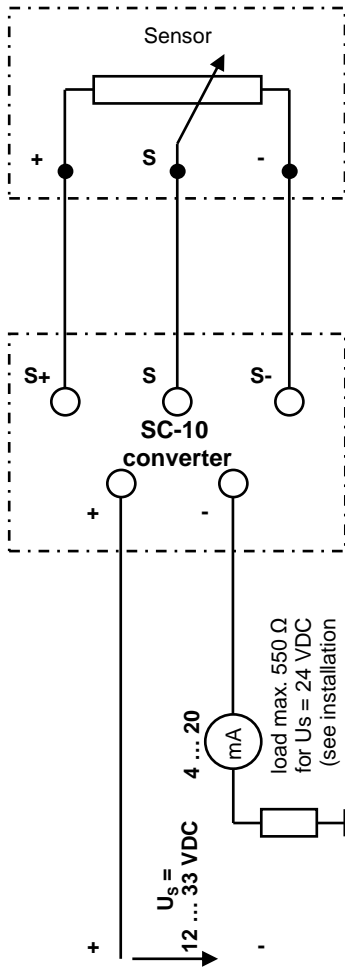


External electrical connections:



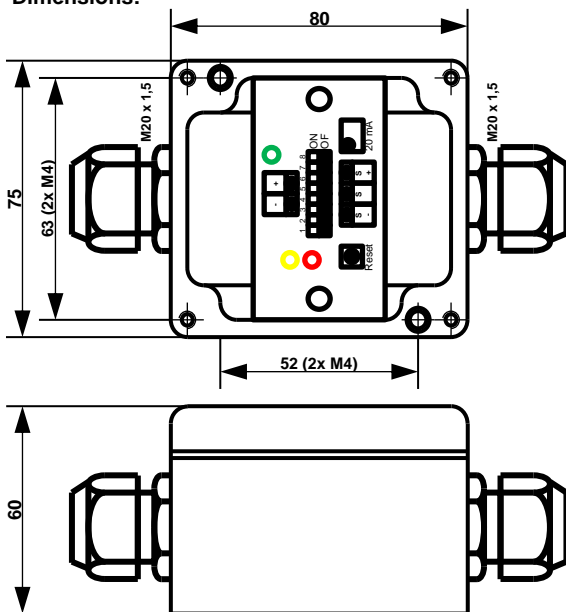
Description: **SC-10**
 Converter with 4 ... 20 mA current output (sink)
 for 3-wire- transmitters (29710-xx).

The output of the transmitter mounted at the float chamber is a resistive signal analog to the filling level of the tank. The converter feeds the transmitter with a constant current and converts the resistive signal into a 4 ... 20 mA output. The operating temperature of the converter is limited. To For higher media temperatures it could be necessary to separate the converter from the VLI (Visual Level Indicator). The max. distance is 10 m.

Product code 45755
Dimensions 80 x 75 x 60 mm
Cable glands Threads, M20 x 1.5
Installation 52 x 63 mm, 2 screws M4 on fixation holder (860528) at VLI or loose for separate installation

Specifications
 Power supply voltage U_s 12 ... 33 VDC
 Input voltage U_{SC-10} 11 ... 32 VDC
 Transmitter resistance 230 Ω ... 5.5 k Ω
 Max. load vs power supply voltage $R_{max} = (U_s - 11 V) / 23.6 mA$
 Current output, nominal 4 ... 20 mA (current sink)
 Current output with sensor interruption 3 mA +/- 5% / $\geq 23.5 mA$
 Current output without magnet field 3.5 mA +/- 5%
 Isolation voltage to housing 500VDC
 Reaction time of current output ca. 50 ms
 Reaction time of magnet failure ca. 600 ms
 Reaction time of sensor interruption ca. 50 ms
 Accuracy (input voltage) < 0.1%
 Accuracy (4 mA adjustment) < +/- 2%
 Accuracy (transfer characteristic) < 5%
 Accuracy (temperature coefficient) < 0.1%/°C
 Sensor current 170 μA ... 2.1 mA
 Sensor voltage ($R_{sensor} > 500 \Omega$) 950 mV
 Sensor voltage ($R_{sensor} < 500 \Omega$) 475 mV

Dimensions:



Operating temperature
 Ambient temperature (T_a) -20°C ... +50°C
 Media temperature -40°C ... +85°C (at VLI)
 > 85°C (seperated from VLI)

Enclosure IP65 (EN60529)

Materials
 Housing Aluminium: grey
 Cable glands PA: grey, M20x1.5
 - seals Perbunan (NBR)
 - cable compatibility $\varnothing 3 \dots 7 mm$
 Max. cross section of clamps 2.5 mm²
 Type label Polyester: silver, black printed