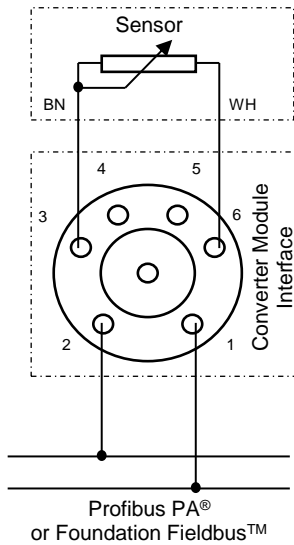


External electrical connections



Description:

Profibus PA® or Foundation Fieldbus™ converter module Interface for use with WEKA Transmitter 29710-R-010-xx and 29710-R-W-010-xx

The converter module interface attached to the float chamber generates a resistance output proportional to the liquid level inside the chamber. The interface converts this variable resistance into a 2-wire digital current output with Profibus PA® or Foundation Fieldbus™ communication. The converter switches automatically between the 2 protocols. Zero and range setting is done through the digital communication channel. For high temperature applications, the converter module interface can be installed at a distance (up to 10m) away from the level indicator and transmitter.

Product code 40268

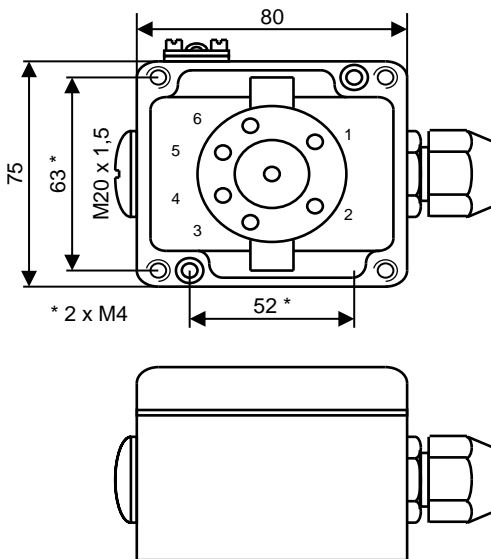
Resolution refer to [29710-R-010-xx](#) [29710-R-W-010-xx](#)

Housing dimensions 80 x 75 x 57mm

Cable entry Threaded socket, M20 x 1.5

Installation On mounting plate (860528) or at other suitably prepared location, using 2 x M4 screws 52 x 63 mm diagonal spacing

Dimensions



Specifications

Loop supply voltage	9 to 30VDC
Consumption	< 11mA
Isolation voltage	test = 1.5kVAC; operation = 50VAC
Communication	PROFIBUS™ PA / FOUNDATION™ Fieldbus
Response time	1 ... 60s
Sensor error detection	Yes
Short circuit detection	< 15Ω
Input	0Ω (min.) to 10'000Ω (max.)
Cable resistance per wire	50Ω
Transmitter current	0.2mA, nominal
Basic accuracy	≤ +/- 0,05Ω
Temperature coefficient	≤ +/- 2mΩ / °C

Operating temperature

Media temperature	29710-R-010-xx	-50°C ... +150°C
	29710-R-W-010-xx	-50°C ... +350°C
Ambient temperature (Ta)		-30°C ... +50°C
Operating temperature	(mounted on VLI)	-30°C ... +85°C
	(away from VLI)	< -30°C / > +85°C

Enclosure

IP65 (EN60529)

Materials

Housing	Alu: blue, with grounding terminal
Cable gland	PA: grey, M20x1.5
- Seal	Perbunan (NBR)
- Cable compatibility	Ø 3 ... 7mm; max. 2 x 1mm ²
Type label	Polyester: silver, black printing

Note

- A unique switch function ensures the automatic shift between the Profibus PA® and the Foundation Fieldbus™ protocols.
- Profibus PA® Version 3.0 or Foundation Fieldbus™ Version ITK 4.51 is applied.
- Set-up for Profibus PA® can be done via Siemens Simatic® PDM®, ABB Melody/Harmony, Honeywell Ax and Metso DNA software
- Set-up for Foundation Fieldbus™ can be done via Emerson Delta V, Yokogawa CS 1000/CS 3000, ABB Melody/Harmony and Honeywell Psource software.
- Polarity-independent bus connection
- Profibus PA™ function blocks: 2 analogue
- Foundation Fieldbus™ function blocks: 2 analogue and 1 PID
- Foundation Fieldbus™ capability: BASIC or LAS

