Guliwer electronics

Fuel sensor

GW 7-5020

Description

Design – the Fuel Sensor is completed with suction and backflow of fuel.

Material – antimagnetic stainless steel.

The basic construction component is a flange to which tubes are welded. The central tube is smaller and houses a measurement system. A float with a magnet moves along this tube depending on fuel level in the tank. By the magnetic field, the magnetic switches are operated. As a result, the output value of the selected electrical quantity depends on the fuel height in the tank.

The tube of 12mm diameter serves for suction of fuel, the tube of 10mm diameter is used for fuel backflow from the fuel pump. A filter is provided to prevent intrusion of rough impurities into the fuel system. Ends of these tubes above the tank are provided with a reinforcement to secure a reliable connection of hoses.

The Fuel Sensor is intended for mounting to tanks with a 40mm hole.
The use of a fuel gauge must be specified in the order.

Parameters:

Max. voltage	15	V
Max. current terminal 1	150	mA
Max. current terminal 2	200	mA
Operating temperature	-40°C thru +85°C	°C
Storage temperature	-40°C thru +85°C	°C
Label	producer, product code, direction of fuel flow, date (or date code)	
Vibration resistance	3	g
Service life	1 000 000	cycles
Protection degree	IP 68 (inner part)	IP 67 (external part)

Overview of manufactured types

Type	height [H]	reserve	L1	L0	Number of measuring steps	R max [ohm]	R min [ohm]	Connector	Flange
	measured from flange [mm]					state 0	state 1		
GW 7-5020	340	286	40	306	16	5±3	82 ±3	Super Seal	6x60° - Ø60,3 Bolt M4
GW 7-5021	617	502	37	548	24				SAE J1810
GW 7-5022	500	420	20	466	21				
GW 7-5023	380	326	40	346	16				6x60° - Ø60,3 Bolt M4
GW 7-5024	340	286	40	306	16				6x60° - Ø60,3 Bolt M4
GW 7-5026	477	361	41	407	18				SAE J1810
GW 7-5027	374	320	28	340	18				6x60° - Ø60,3 Bolt M4

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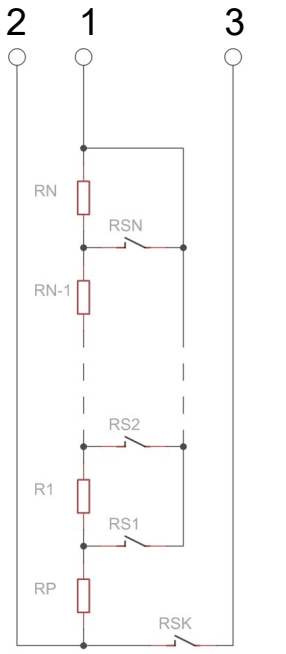
GW 7-5028	452	336	41	382	17				SAE J1810

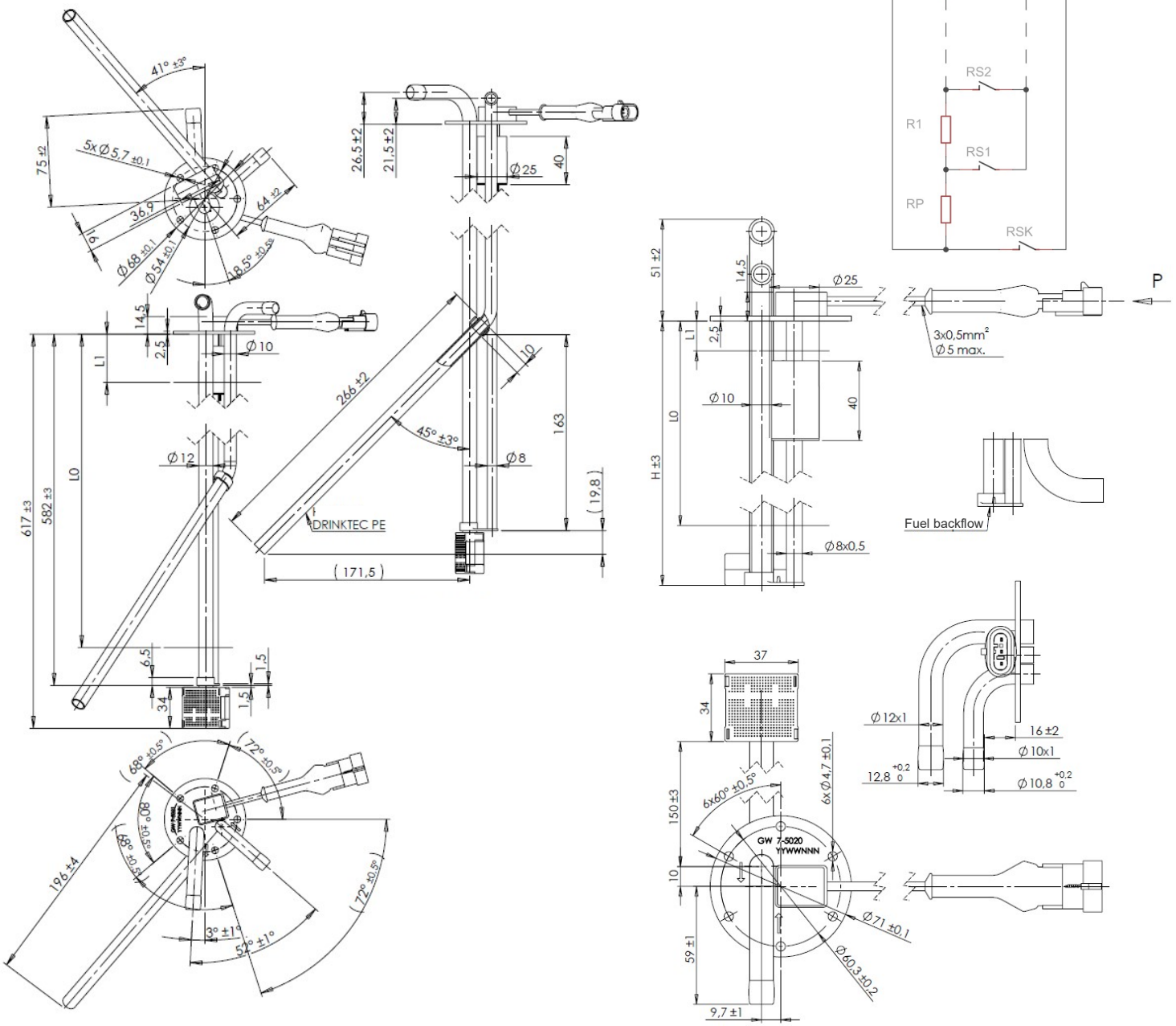
Other types can be prepared according to customer requirements within the limit parameters stated below:

Limit parameters for specifying new types by the customer.

Max. length H	900	mm
Measuring circuit resistance	50 – 100 000	ohm
Minimum measurement step	10	mm
Max. measured height L1	15	mm
Min. measured height L0	H - 30	mm
Turn around of tubes	Different – depending on tank design	
Connector	Any type of cable connector	

Circuit diagram





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