Guliwer electronics

Fuel sensor

GW 7-7001

Description

Material – Flange: PBT; tube: antimagnetic stainless steel.

The basic construction component is a plastic flange with a central tube. The measurement system is located inside the tube. A float with a magnet moves along this tube and is operating the magnetic switches. As a result, the output value of the selected electrical quantity depends on the fuel height in the tank.

The Fuel Sensor can be equipped with a reserve switch.

The measurement system can be connected as a rheostat or as a voltage divider.

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	50	mA
Operating temperature	-40°C až +85°C	°C
Storage temperature	-40°C až +85°C	°C
Label	producer, producer code, date (or date code)	
Vibration resistance	3	g
Service life	1 000 000	cycles
Protection degree	IP 68 (inner part)	IP 67 (external part)

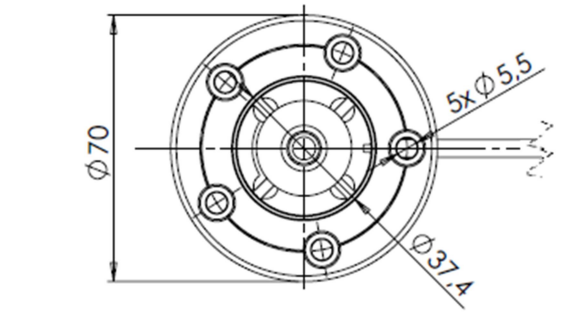
Overview of manufactured types

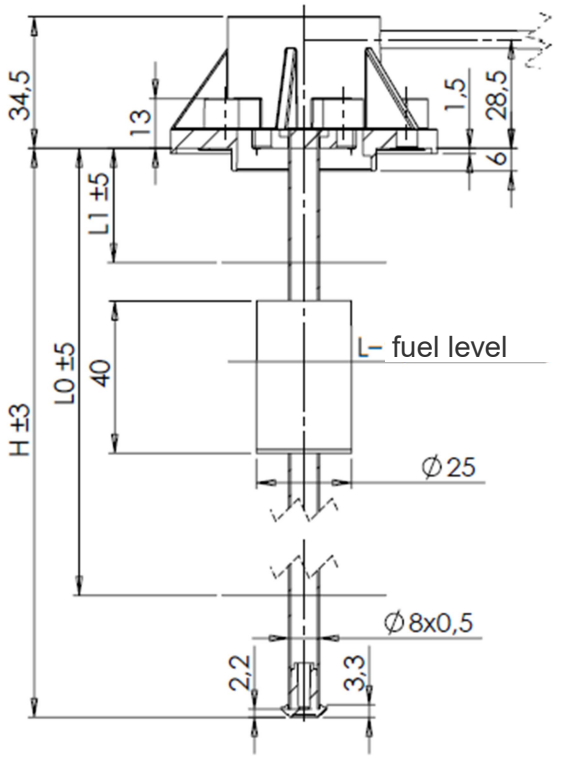
Type	height [H]	reserve	L1	L0	Number of measuring steps	R max [ohm]	R min [ohm]	Connector	Flange
	measured from flange [mm]					state 0	state 1		
GW 7-7011	205	-	30	175	10	240±3	33±3	Super Seal	SAE J1810
GW 7-7012	350			320	17				
GW 7-7013	430			400	21				
GW 7-7014	450			420	22				
GW 7-7015	480			450	23				
GW 7-7016	650			620	31				
GW 7-7017	500			470	24				
GW 7-7018	400			370	19				
GW 7-7061	205			175	10			Deutsch DT04-2P	
GW 7-7062	350			320	17				
GW 7-7063	430			400	21				
GW 7-7064	450			420	22				
GW 7-7065	480			450	23				
GW 7-7066	650			620	31				
GW 7-7067	500			470	24				
GW 7-7068	400			370	19				

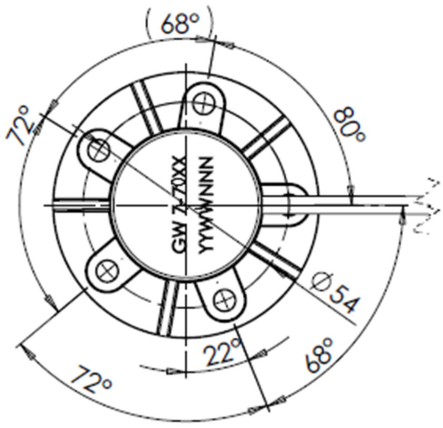
Guliwer electronics, s.r.o., Dukelskych hrdinu 1011, 563 01 Lanskroun, Czech Republic
Tel.: +420 465 461 537 (sales) +420 465 461 536 (technical information)
Mobil: +420 603 162 962; +420 603 843 695; e-mail: guliwer@guliwer.cz; http://www.guliwer.cz

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	800	mm
Measuring circuit resistance	50 – 100 000	ohm
Minimum measurement step	10	mm
Max. measured height L1	18	mm
Min. measured height L0	H - 30	mm
Connector	Any type of cable connector	

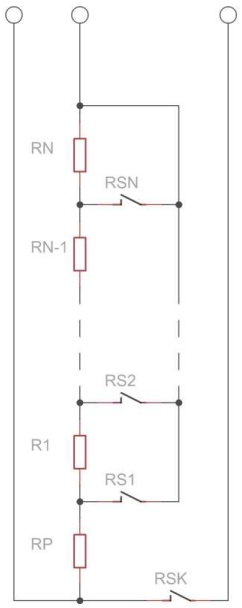




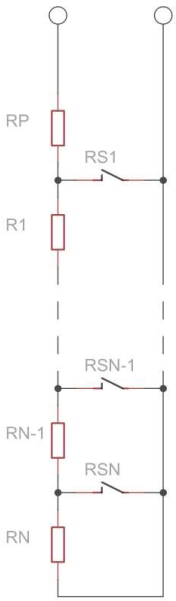


Circuit diagram

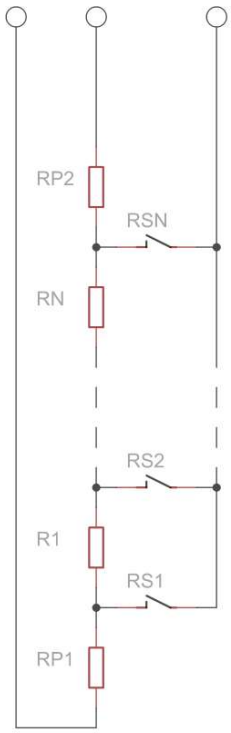
Rheostat with reserve



Rheostat



Voltage divider



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