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TANK LEVEL GAUGE

INL-08 / RIL-08 / TLGL-08

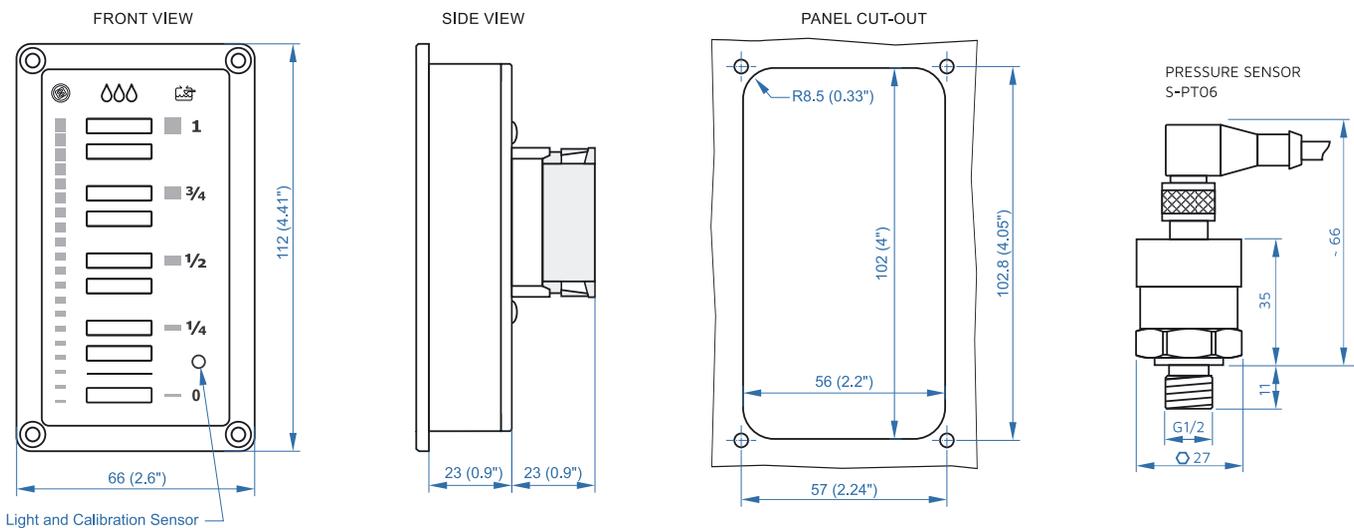


Features and Benefits

- 1 **180° Viewing Angle**
- 2 **I/O Driver For Low Water Warning, Autofill-Hysteresis, Mute Input, Etc.**
- 3 **Can Bus Datalink**
- 4 **Super Bright Leds**
- 5 **Dimmable-Light Sensor**
- 6 **Low Installation Depth**
- 7 **Washable, Waterproof Aluminium Housing**

INL-08 types of Tank Level Gauges are designed to display liquid's volume at an accuracy of 1/8 of the tank level using ultra-bright LEDs. The transducer measures the column of the liquid in the tank above the sensor process input and provides a signal that is proportional to the tank high. The unit standardly uses a pressure transducer with output 0.5-4.5 V.

The sensor input is widely configurable and it can also be used for 0.5-4.5 V, 0-10 V, 4-20 mA sensors and conductive or resistive probes.

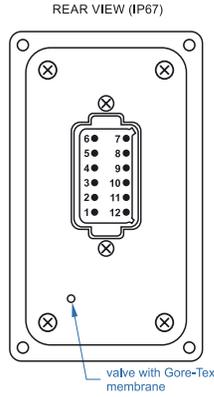


Optional I/O driver can be integrated for low level warning output, autofill-hysteresis output, mute input, etc.

The Tank Level Gauge can be used as a stand-alone system or as a part of MMX system connected via CAN bus to IO Controller. Several

slave indicators (large remote - RIL) can be connected to a master indicator INL to show the same value on different locations or in combination with a small remote indicator (RIS) for the cabin and XL remote indicator (RIXL) for the vehicle sides.

Connection



CONNECTION Deutsch DT06-6S

PIN DESCRIPTION

1	BATTERY + (*15")
2	CAN L
3	CAN H
4	SENSOR [V] OR [mA] VCC+
5	SENSOR [V] GND
6	SENSOR [V] OR [mA] SIGNAL
7	OUT1 (OPTIONAL), e.g. LOW WATER
8	OUT2 (OPTIONAL), e.g. AUTOFILL
9	OUT3 (OPTIONAL)
10	OUT4 (OPTIONAL)
11	INPUT (OPTIONAL)
12	BATTERY -

Transducer-OEM

SPECIFICATION AND CONNECTION

Pressure Range	0-600 mbar (0 - 6 m tank height)
Signal Output	0.5-4.5 V
IP Class (IEC529)	IP67
Transducer Material	Stainless steel 316L
Pressure Port	1/4"
Transducer Cable	3 x 0.35 mm ² with M12 connector
M12 Connection	1:Ub, 3:GND, 4:Signal+

Specifications

POWER	
Supply Voltage	8-32 V DC
Current	0.5 A maximum, no outputs active
Electrical Protection	overvoltage, transients, reverse polarity, load dump
INTERFACES	
CAN	1 x CAN
CAN termination	120 ohm, DIP switch
I/O	
Sensor input	0.5-4.5 V, 0-5V, 0-10V, 4-20 mA, resistive probe, conductive probe through extra M12 connector
Digital Input	configurable active low/high levels 0..Ub, protected
Digital Output	<i>*Only version with integrated I/O driver</i>
OUT1	positive switching (high-side), max. 3 A (Low water warning)
OUT2	positive switching (high-side), max. 1.5 A (Autofill-Hysteresis xx/xx%)
OUT3	positive switching (high-side), max. 1.5 A
OUT4	negative switching (low-side), max. 0.5 A
Loads	inductive, capacitive, resistive
Miscellaneous	protection from short circuit and overload

ENVIRONMENT	
IP Class (IEC529)	IP67, waterproof
EMC Conformity	EN61000-6-2 noise immunity EN61000-6-4 radiation of interference
Temperature Range	storage -40° to +85°C (-40° to 185°F) operating -40° to +85°C (-40° to 185°F)
ENCLOSURE	
Housing Material	Aluminium
Mounting	in-dash, with 4 screws M3 or 3.5 mm (#8) tapping screws
Matting Connector	Deutsch DT06-12S
MISCELLANEOUS	
Indicator increments	1/8
Day/Night operation	automatic - integrated light sensor
Front panel	backlit, colour coded for water and foam
Detectable substances	water, fire-smothering foam, gasoline, etc
SIZE AND WEIGHT	
W x H x D	66 x 112 x 23 mm (2.6"x4.41"x0.9") without connector
Weight	0.25 kg (0.55 lbs)

How to order (use characters in bold to create order code)

SET of Master Indicator - Large INL, Sensor PT06-U4, Sensor cable

Ordering code example:

T	L	G	L	-	O	8	W	C	-	O	5	R	H				
08 DISPLAY INCR. 1/8				W: WATER F: FOAM		C: CAN BUS		CABLE LENGTH, METERS (INCH) 05: 5 M (20") 10: 10 M (40") 15: 15 M (60")			OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1

Remote Indicator - Large

Ordering code example:

R	I	L	-	O	8	W	C	O	-	R	H					
08 DISPLAY INCR. 1/8				W: WATER F: FOAM		C: CAN BUS		LED BRIGHTNESS I: INSIDE O: OUTSIDE		OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1

Master Indicator - Large

Ordering code example:

I	N	L	-	O	8	W	C	U	4	R	H						
08 DISPLAY INCR. 1/8				W: WATER F: FOAM		C: CAN BUS		SENSOR INPUT / PROBE U4: 0.5-4.5V U1: 0-10 V I2: 4-20 MA RO: RESISTIVE IN			OUT1 R: LOW LEVEL WARNING		OUT2 H: AUTOFILL HYST. xx/xx % R: ADD. OUTPUT		OUT3, OUT4 O: 1X 1.5A POSITIVE 1X 0.5A NEGATIVE		INPUT NEGATIVE M: MUTE OUT1



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