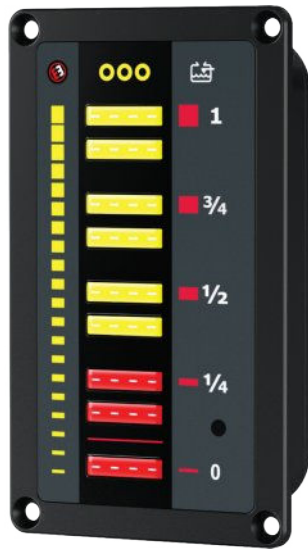
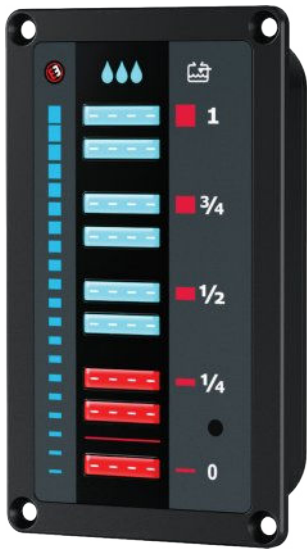


TANK LEVEL GAUGES I

INL-08 / RIL-08 / TLGL-08



KEY FEATURES

- + 180° Viewing Angle
- + I/O Driver For Low Water Warning, Autofill-Hysteresis, Mute input, Etc.
- + CAN Bus Interface
- + Super Bright LEDs
- + Ambient Light Sensor
- + Low Installation Depth
- + 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.



SPECIFICATIONS

POWER

Supply Voltage 8-30 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 *Only version with integrated I/O driver

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-OUT4 positive switching (high-side), max. 1.5 A

OUT5 negative switching (low-side), max. 0.5 A

Loads Inductive, capacitive, resistive

Miscellaneous protection from short circuit and overload

ENVIROMENT

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

Mating Connector Deutsch DT06-12S

MISCELLANEOUS

Indicator increments 1/8

Day/Night operation automatic – integrated ambient light sensor

Front panel backlit, colour coded for water and foam

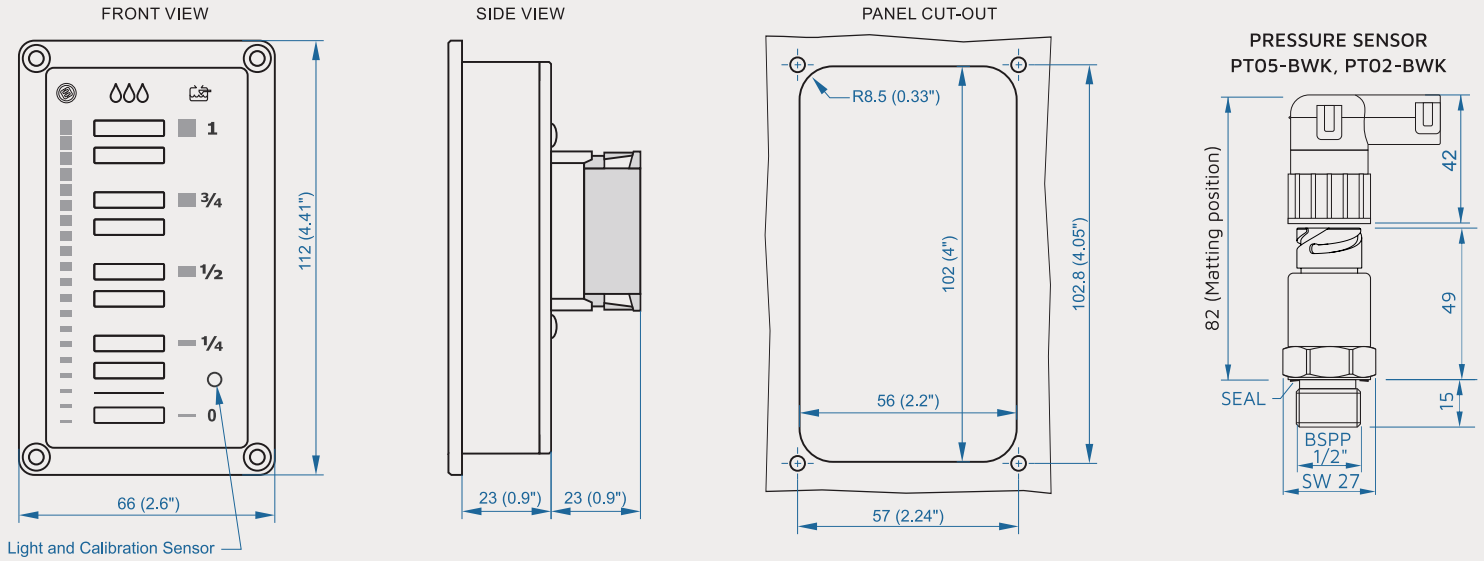
Detectable substances water, fire-smothering foam, gasoline, etc

SIZE & WEIGHT

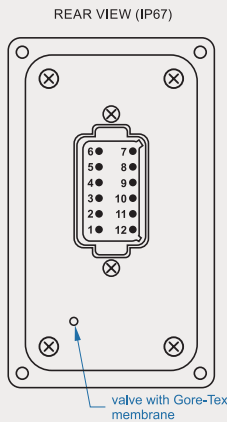
W x H x D 66 x 112 x 23 mm (2.6"x4.41"x0.9") without connector

Weight 0.25 kg

DIMENSIONS



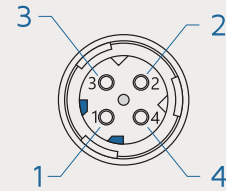
CONNECTIONS



CONNECTION DEUTSCH DT06-6S

PIN	Description
1	BATTERY + ("15")
2	CAN L
3	CAN H
4	SENSOR [V]/[MA] VCC+
5	SENSOR [V] GND
6	SENSOR [V]/[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



CONNECTION TWIST LOCK (ISO 15170)

PIN	VOLTAGE SENSOR	CURRENT SENSOR
1	BATTERY +	BATTERY +
2	GND	SIGNAL 4-20 MA
3	SIGNAL 0.5-4.5V	N/C
4	N/C	N/C

PRODUCT CODE

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

Ordering code example:

T	L	G	L	-	0	8	W	-	0	5	R	H		
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM		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	-	0	8	W	-	R	H		
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM		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	

*NOTE: Selection of all three options R, H and L for the same indicator is standardly not possible. Options that are available are R, H, L and the combination RH

Master Indicator - Large

Ordering code example:

I	N	L	-	0	8	W	U	4	R	H		
08 DISPLAY INCREM. 1/8		W: WATER F: FOAM		SENSOR INPUT / PROBE U4: 0,5-4,5V U1: 0-10 V I2: 4-20 MA R0: 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