

Data sheet

idOil-30

idOil®-30 oil separator alarm control unit



**Fulfills
requirements
of EN 858-1&2
standards**

idOil-30 is a control unit for oil separator alarm systems. It can be equipped with up to three any type of idOil sensors. With the idOil-30 and applicable Labkotec sensors following alarms can be monitored:

- **High liquid level alarm**, when the liquid level in the oil separator rises excessively e.g. in an outlet blockage situation.
- **Oil layer thickness alarm**, when the oil separator's full capacity for oil or petrol has been reached.
- **Sludge layer thickness alarm**, when the sludge layer in the bottom of the separator has reached its maximum level.
- **Separator leakage alarm**, when the liquid level drops unexpectedly.

In these situations, an integrated alarm buzzer will sound, the display will show the alarm information and the relay(s) will switch. idOil-30 can be connected locally to laptop/tablet/smartphone via WLAN to access the inbuilt browser user interface for further configurations and settings.

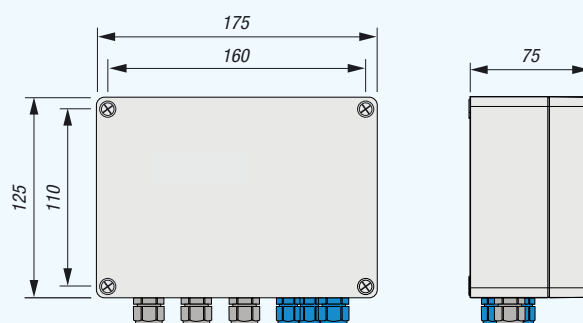
Features

- Multi supply voltage
- Selectable sensor combination with up to three sensors
- Polarity-free sensor connection
- Automatic sensor and sensor type detection
- Quick one touch commissioning
- Display for system status and alarm information
- Two fully configurable potential free relay outputs
- Alarm log
- Service and maintenance diary
- WLAN connection locally between control unit and laptop/tablet/smartphone to access the built in browser user interface for settings and configuration

Technical data

Mounting	Wall mounting
Enclosure material	Polycarbonate
Weight	780 g
IP classification	IP65
Display	4 line monochrome LCD
Ambient temperature	-30 °C...+60 °C
Supply voltage	100-240 V AC, 50/60 Hz
Supply power fuse	Max. 10 A
Power consumption	Max. 12 VA
Relay outputs	5 A, 250 V AC/30 V DC, 100 VA potential free changeover contacts, 2 pcs
EMC	IEC/EN 61000-6-2 IEC/EN 61000-6-3
Electrical safety	Class I, IEC/EN 61010-1, UL 61010-1 CAN/CSA-C 22.2 NO. 61010-1-12
Overvoltage category	II
Ex classification	⊕ II (1) G [Ex ia Ga] IIB ATEX, IECEx, UKEX
Exi interface values	$U_0 = 14.5 \text{ V}$, $I_0 = 78 \text{ mA}$, $P_0 = 367 \text{ mW}$, $R = 243 \Omega$
Max values in IIB	$C_0 = 4.0 \mu\text{F}$, $L_0 = 16.7 \text{ mH}$
Compatible sensors	idOil-LIQ high liquid level sensor idOil-OIL / idOil-OIL-S oil sensor idOil-SLU sludge sensor
Accessories	LCJ1-1 cable connector for one sensor LCJ1-2 cable connector for two sensors LCJ1-3 cable connector for three sensors LMS-SAS2 and LMS-SAS5 mounting sets

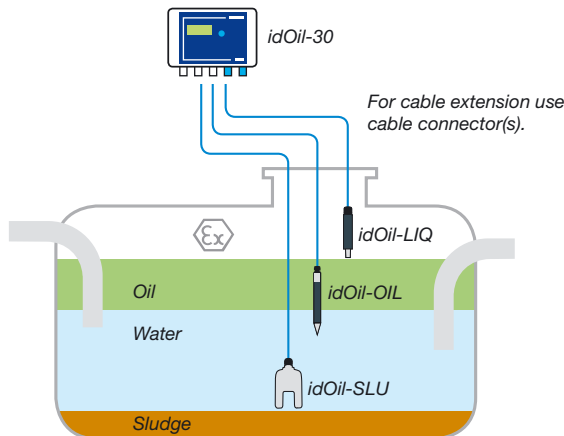
Dimensions (mm)



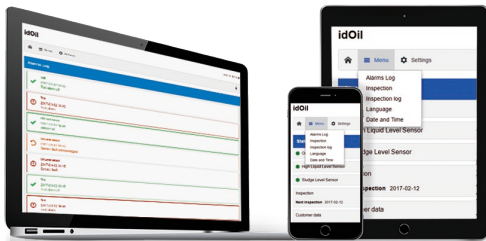
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Application



Settings, configurations and information via browser user interface



- System status view with current alarms
- Date and time settings
- Language selection
- Alarms log, downloadable
- Inspection settings
- Write inspection notes
- Inspection diary, downloadable
- Customer data input for display
- Alarm settings
- Sensor identification and naming
- Relay configuration
- Software update

Cable connectors



LCJ1-1

Cable connector for one sensor.



LCJ1-2

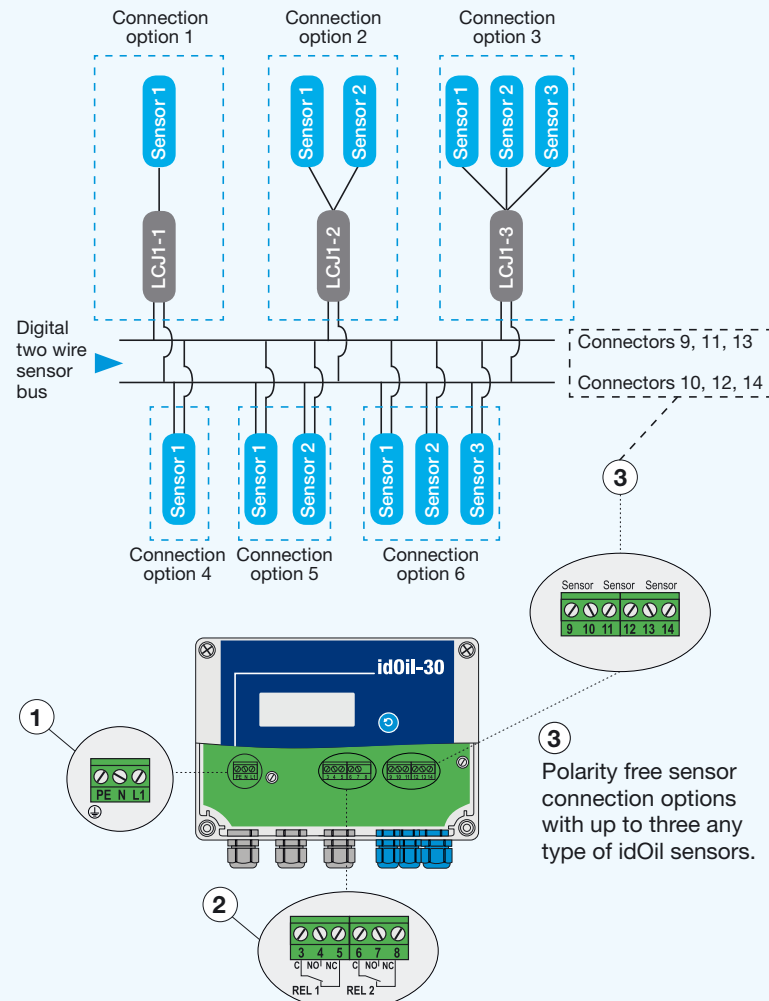
Cable connector for two sensors.



LCJ1-3

Cable connector for three sensors.

Installation



1 Supply voltage 100-240 V AC

PE = Ground conductor
N = Neutral conductor
L1 = Phase conductor

2 Relay output

Relay 1

3 = Common pole
4 = Opening pole when alarm
5 = Closing pole when alarm

Relay 2

6 = Common pole
7 = Opening pole when alarm
8 = Closing pole when alarm

3 Sensor connectors

9 = Sensor 1 connection 1
10 = Sensor 1 connection 2
11 = Sensor 2 connection 1
12 = Sensor 2 connection 2
13 = Sensor 3 connection 1
14 = Sensor 3 connection 2

Polarity free sensor connection options with up to three any type of idOil sensors.