

MAKING SENSE IN YOUR PRODUCTION

DOL 44R-33

TECHNICAL USER GUIDE





For **other language variants** of this document we refer to www.dol-sensors.com or your local dealer.

dol-sensors a/s Hedelund 4, Glyngøre 7870 Roslev Denmark Tlf. +45 72 17 58 88 Fax +45 72 17 59 59 **www.dol-sensors.com**



PRODUCT DESCRIPTION:

DOL 44R-33 is a capacitive relay sensor for detection of feed, grain and solids. The sensors have relay output including switch function.

In contrast to the standard version DOL 44R-33, DOL 44RH-33 has a controllable heating element built in. This prevents condensation in cold environments

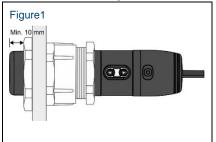
Fields of application:

- · Level control in silos and containers
- · Controlling the filling and emptying process.

MOUNTING GUIDE (FIG. 1):

DOL 44R-33 includes M30 thread.

It should be installed so as to leave at least 10 mm from the sensor's end free, ideally using a PG36/M40 screwed flange.



INSTALLATION GUIDE (FIG. 2):

Supply voltage is connected to the blue and brown wire.

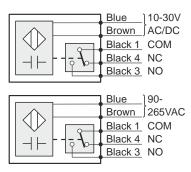
The load is connected in series with the relay contact of the sensor.

STOP by activating the sensor: Use the black wires 1 and 3.

START by activating the sensor: Use the black wires 1 and 4.

NOTE! The internal relay is in position NC when the supply voltage is connected and the sensor is activated - wire 1 and 4 are connected.

Figure 2: No-current sensor



USER'S GUIDE (FIG. 3):

Depending on its type, DOL 44R-33 has two trimmers with different functionalities.

Delayed disconnection:

- Fixed time or
- Time adjustable on trimmer

Delayed connection:

- Fixed time or
- · Time adjustable on trimmer

Sensitivity:

- Fixed distance or
- · Distance adjustable on trimmer

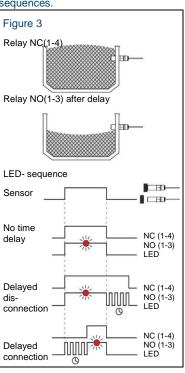
MaxRunTimer:

• Settings on the trimmer: Off, Period 1, Period 2

The actual functionality of the sensor is indicated on the product label.

DOL 44R-33 has a red LED, indicating sensor status.

Fig. 3 shows examples of LED sequences.



TECHNICAL DATA:

Supply voltage:

 Voltage version:
 90 - 265 VAC

 47 - 63 Hz

 Voltage version:
 10 - 30V AC/DC

 47 - 63 Hz

 Voltage version:
 20 - 280V

 AC/DC

MAKING SENSE IN YOUR PRODUCTION

47 - 63 Hz

Relay:

Max. resistive load, 250VAC: 5 A

Max. lagging load, 250VAC: 2 A

Min. relay current, 12 VDC 100 mA

Temperature:

Temp. operation: $-20 \, ^{\circ}\text{C} - + 70 \, ^{\circ}\text{C}$ $-4 \, ^{\circ}\text{F} - + 158 \, ^{\circ}\text{F}$ Temp. operation, USA $-20 \, ^{\circ}\text{C} - + 65 \, ^{\circ}\text{C}$ and Canada: $-4 \, ^{\circ}\text{F} - + 149 \, ^{\circ}\text{F}$ Temp. operation, $-30 \, ^{\circ}\text{C} - + 80 \, ^{\circ}\text{C}$ storage: $-22 \, ^{\circ}\text{F} - + 176 \, ^{\circ}\text{F}$

Temp. operation and $-40 \,^{\circ}\text{C} - +70 \,^{\circ}\text{C}$ storage with heat $-40 \,^{\circ}\text{F} - +158 \,^{\circ}\text{F}$ function:

Degree of protection:

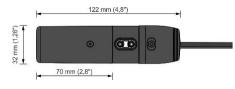
IP: 69k NEMA: 1, 3, 4, 6, 12, 13 Cable:

Lenght: 2 m 6.6 feet

Conductor dimensions: $5 \times 0.5 \text{ mm}^2$ $5 \times AWG20$

Style: UL2517

Dimensions:



Approvals:

CE UL

C-UL

*Optional - can be changed/selected as preferred. See the current functions on the product label. For more information: www.dolsensors.com

2018.09.26 • 604193 • 17.09 • EN • Made in Denmark