

MAKING SENSE IN YOUR PRODUCTION

DOL 44R

TECHNICAL USER GUIDE





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

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PRODUCT DESCRIPTION:

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

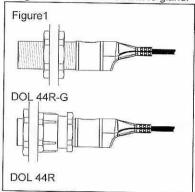
Fields of application:

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

MOUNTING GUIDE (FIG. 1):

DOL 44R includes M30 thread. Mount it in a ø30 mm hole and tighten using the locknuts included.

DOL 44R is made in a ø30 mm smooth design mounted in a PG36/M40 gland.



INSTALLATION GUIDE (FIG. 2):

Supply voltage is connected to the blue and brown wire.

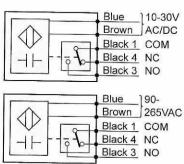
The load is connected in series with the relay contact of the sensor.

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 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

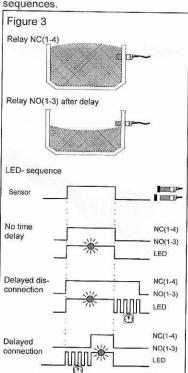
Max RunTimer:

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

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

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

Fig. 3 shows examples of LED sequences.



DOL 44RH has a built-in, controlled heat function which prevents frost and condensation on the sensor. This ensures optimum detection in very cold and damp environments.

The heat function is only possible for the 90-265 V AC voltage version.

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

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 °C - + 70 °C - 4 °F - + 158 °F Temp. operation, USA - 20 °C - + 65 °C and Canada: -4 °F - + 149 °F

Temp. operation, - 30 °C - + 80 °C storage: - 22 °F - + 176 °F

Temp. operation and - 40 °C - + 70 °C storage with heat - 40 °F - + 158 °F function:

Degree of protection:

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

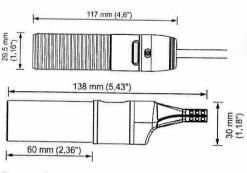
Cable:

Lenght: 2 m

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

Dimensions:

Style:



Approvals:

CE

UL

C-UL

UL2517