



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.

PRODUCT DESCRIPTION:

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

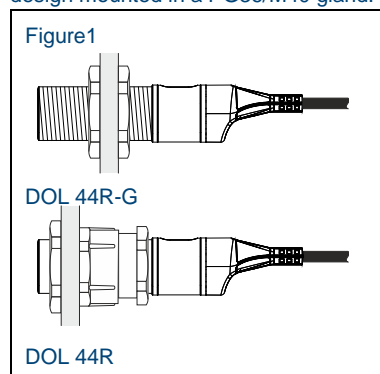
Fields of application:

- 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 $\varnothing 30$ mm hole and tighten using the locknuts included.

DOL 44R is made in a $\varnothing 30$ mm smooth design mounted in a PG36/M40 gland.



INSTALLATION GUIDE (FIG. 2):

Supply voltage is connected to the blue and brown wire.

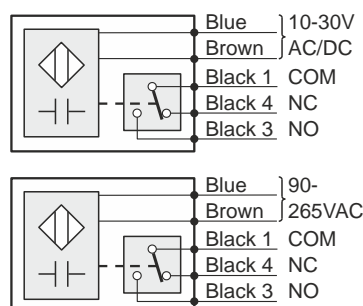
The load is connected in series with the relay contact of the sensor.

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

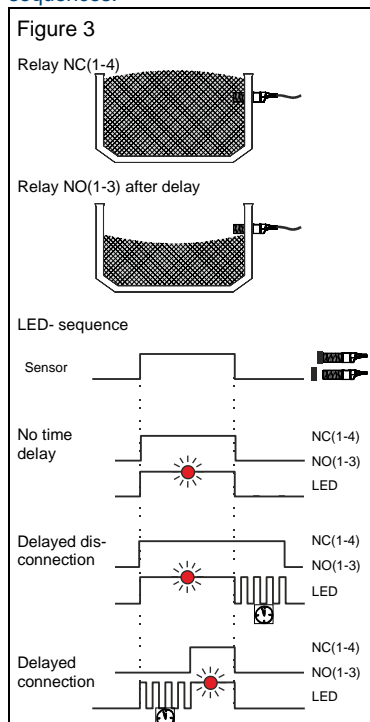
Max RunTimer:

- 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 and Canada: | - 20 °C - + 65 °C |
| | - 4 °F - + 149 °F |
| Temp. operation, storage: | - 30 °C - + 80 °C |
| | - 22 °F - + 176 °F |
| Temp. operation and storage with heat function: | - 40 °C - + 70 °C |
| | - 40 °F - + 158 °F |

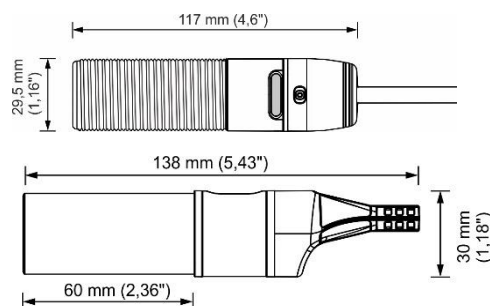
Degree of protection:

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

Cable:

| | |
|-----------------------|-------------------------|
| Lenght: | 2 m |
| | 6.6 feet |
| Conductor dimensions: | 5 x 0.5 mm ² |
| | 5 x AWG20 |
| Style: | UL2517 |

Dimensions:



Approvals:

CE
UL
C-UL