

DOL 44R-T SENSOR

TECHNICAL USER GUIDE



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

PRODUCT DESCRIPTION:

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

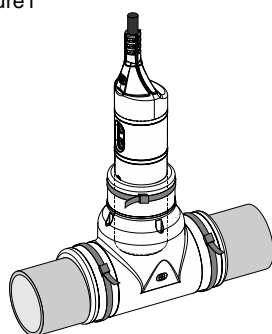
Fields of application:

- Start/Stop for supply of materials.

MOUNTING GUIDE (FIG. 1):

- Use the supplied cable ties to mount the sensor on the feed line. The sensor only works if mounted on $\varnothing 40$ -60 mm plastic pipes.
- The sensor needs to be in direct contact with the plastic pipe. This can be verified by checking that the edge of the sensor is flush with the lower edge of the bracket.

Figure 1



DOL 44R-T

INSTALLATION GUIDE (FIG. 2):

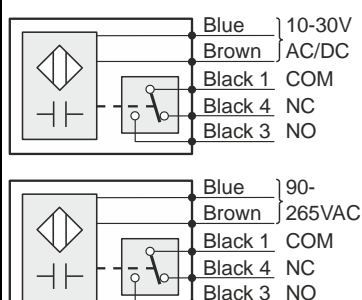
Supply voltage is connected to the blue and brown wire.
The load is connected in series with the relay contact of the sensor.

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. See product label.

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:

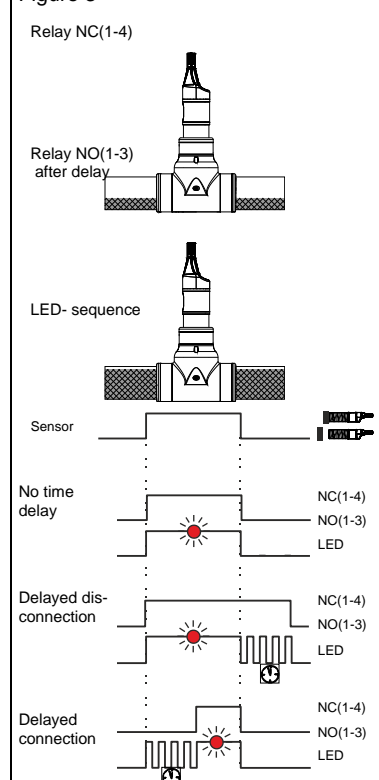
- Settings on the trimmer: Off, Period 1, Period 2

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

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

Fig. 3 shows examples of LED sequences.

Figure 3



TECHNICAL DATA:

Supply voltage:

Voltage version: 90 - 265 VAC
47 - 63 Hz

Voltage version: 10 - 30V 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

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 mm²
5 x AWG20

Approvals: CE
UL
C-UL

Dimensions:

