

DOL 20R

capacitive sensor



DOL 20R is a capacitive sensor for detection of loose and solid materials.

The sensor has a 5-way connection, power supply and a potential-free relay with NC and NO outputs.

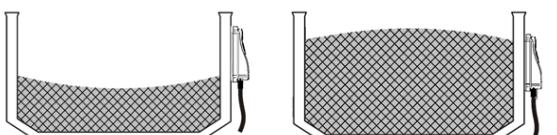
The product is intended for contactor operation, but will be well suited for a number of other agricultural and industrial applications.

Functional description

When there is material in front of the sensor, the output is in the reference position NO. When the material disappears, the timer starts, and the output will change to NC after the set delay.

The status of the sensor is indicated with a yellow LED.

The sensor sensitivity and delayed disconnection can be adjusted on two trimmers.



Relay activated (NC) Relay in default position (NO)

Delayed disconnection:

fixed delay or delay can be adjusted on the trimmer.

Delayed connection:

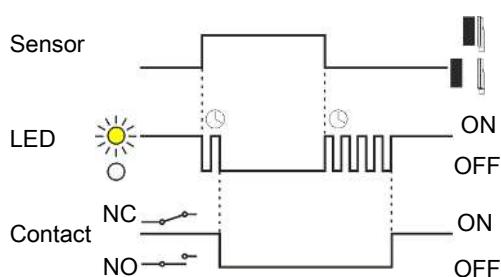
fixed delay or delay can be adjusted on the trimmer.

Sensitivity:

fixed distance or Distance can be adjusted on the trimmer.

MaxRun-timer:

DOL 20R Settings on the trimmer: Off, Period 1, Period 2



LED indication	Sensor status
LED OFF	Relay in default position (NO) - output ON
LED flashing	Relay in default position and delay running

LED indication	Sensor status
LED ON	Relay activated (NC) – output OFF

Technical data

Electrical		
Rated voltage (Ue)	V AC	90-250
Frequency	Hz	50-60
Consumption (max.)	W, 230 V AC	0.9
Rated relay current at 250 V AC	A RMS	0.5, Inductive
	A RMS	1, Resistive
Time delay, start-up	ms	< 300
Time delay OFF	s	0-600*
Time delay ON	s	1*
Indication for output ON (if installed)		Yellow LED
Operating distance (Sn) Adjustable	mm in	0-12* 0-0.47*
Hysteresis (H)	%	8-10
Mechanical		
Cable length	m (ft.)	2 (6.5)
Cable dimensions	mm ² (AWG)	5x0.5 (5x20)
Frame for mounting sensor		Included
Environment		
Temperature, operation	°C (°F)	-20 - +70 (-4 – 158)
Temperature, storage	°C (°F)	-30 - +80 (-22 – 176)
Protection class	IP (NEMA)	67 (4)
Approvals		CE, C-UL

*Can be modified according to customer needs.

Dimensions

