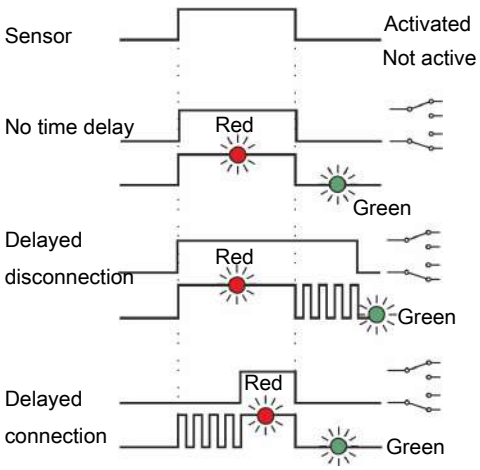
DOL 40R series
Capacitive Relay-Sensor



DOL 40R series is designed for general detection of feed, grain and solids in tanks, silos and containers. The powerful integrated relay means that it can control many functions directly.

RELIABILITY
The sensor's electronics are completely embedded in a thermoplastic casing. This achieves a very high resistance to moisture and other external influences in aggressive environments. The sensor is CE, C-UL and UL approved and has a high immunity to noise from electric communication (e.g. from mobile phone) and transients (e.g. from motors and contactors). This makes the sensor very reliable and dependable in operation.



Functional description
DOL 41R has no time delay.

DOL 43R has an option for delayed disconnection. Time delay starts When the activation stops (red flash) When this time stops, the relay switches back.

DOL 45R has Apart from the settings mentioned above, also has the option of delayed connection. The time delay starts when the sensor is affected. When the delay period runs out, the relay will switch. The relay does not switch back until the activation stops.

DOL	Sensitivity	Delayed disconnection	Delayed connection
41R	●		
43R	●	●	
45R	●	●	●

Building-in

DOL 40 series can be mounted in a plastic gland, which can also be supplied as a flange solution for external mounting. Likewise the sensor is available with thread which provides several mounting options.

SENSOR FOR PIPE TRANSPORT
DOL 40R series also includes a DOL 45R-T sensor. This model has been specially developed for the detection of materials in pipe systems, e.g. feed strings in dry feeding systems. The setting of sensitivity is more accurate and the factory preset is 20 sec. ON-delay.

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Technical data

Electrical		
Supply voltage variant depending	V AC/DC V AC	10-30 90-250
Frequency	Hz	50 - 60
Relay switch max. current	V AC	250
Relay switch max. current AC	A	5 A at cos φ = 1 2 A at cos φ = 0,8 0,35 A at cos φ = 0,4
Relay switch max. current DC	A	5 A at 0-30 V DC
Safety		Relay switches and supply voltage are galvanically separated. Test voltage 4 kV AC
Specifications		
Variant understanding		DOL 45R G T Series Tube mount Thread
Distance of activation		Adjustable 0-15 mm depending on material Factory setting is grain.
Time delay		Adjustable 0 - 240 min. Factory setting is 30 sec.
Mechanical		
Sensor length	mm (inches)	110 (4 5/16)
Sensor diameter	mm (inches)	30 (1 3/16)
Cable dimensions	mm^2 (AWG)	5x 0,75 (5 x 18)
Cable length	m	1.5
Cable type		UL2517
Weight incl. cable	g	290
Environment		
Operating temperature	°C (°F)	-20 - +70 (-4 - +158)
Storage temperature	°C (°F)	-30 - +85 (-22 - +185)
Protection class	IP	IP67
Approval		CE, C-UL & UL

Dimensions

