

FEED

Feed sensors for automation
of processes



dol
SENSORS

MAKING SENSE IN YOUR PRODUCTION

FEED

We produce feed sensors for automated processes in feed and grain handling.

Capacitive feed sensors are used for the automation of processes where there is a need for controlled conveyance and storage of materials. The capacitive feed sensors ensure an efficient and seamless handling of grain and other feedstuffs, and can be used for handling wood, plastics and other granular materials. Our large product range includes both smooth cylindrical sensors, threaded cylindrical sensors and flat sensors.



OUR FEED SENSORS

- Detection of feed and grain in feed systems for livestock production
- Large range of functional, mechanical and electrical variants to meet every need
- Designed for aggressive livestock house environment
- CE, UL, CSA and ATEX approvals



Capacitive Feed Sensors



DOL 20 - CAPACITIVE SENSOR - FLAT 90.5X45 MM, SCR/RELAY

The DOL 20 is a flat sensor, which is typically used to measure the feed level in hoppers, feed pans, silos, bins, or for control of poultry feed lines. The DOL 20 can be mounted on the outside of a plastic or composite shell, since it can detect the level through this material. The sensitivity of the DOL 20R sensor can be fixed or adjustable using trimmers to match various types of feed. The DOL 20 has an SCR output, whereas the DOL 20R version has potential-free relay contacts with a switch function.



DOL 25 - CAPACITIVE SENSOR - 30 MM, SCR/PNP/NPN, IP67

The DOL 25 is a full range of 30 mm sensors that includes the variants without trimmers, with one trimmer or with two trimmers for adjustment of sensitivity and delay. All types offer active temperature compensation, which makes them 100% temperature stable.



DOL 26 - CAPACITIVE SENSOR - 18 MM, SCR/PNP/NPN, IP69K

The DOL 26 is a complete range of 18 mm sensors. The mechanical design of the 18 mm DOL 26 sensor makes it ideal for inclusion in small applications with limited space. Versions with full return of the cable are especially suited to feed pans. The sensor has a very low power consumption in standby mode - and therefore several sensors can work in parallel on the same contactor. This renders control of cross auger installations possible. DOL 26 is particularly immune to EMI short-circuiting and overloading, i.e. the risk of burnt-out sensors due to installation errors is non-existent.



DOL 28R CAPACITIVE SENSOR WITH LIGHT

The DOL 28R is a very unique sensor that combines a 30 mm feed sensor with an integrated light. The DOL 28R is designed for feed pans in poultry production, where the light will ensure that the pan with the sensor gets attention from the birds, which again ensures a stable feed supply. Compared to discrete light solutions, the DOL 28R is very easy to install and can be used also for upgrading existing feed systems with an integrated light solution.



DOL 40R - CAPACITIVE SENSORS - 30 MM, RELAY, IP67

The DOL 40R series comprises three models with different functionalities. The DOL 41R has no time delay, the DOL 43R has the option of delayed disconnection and the DOL 45R additionally has the option of delayed switch-on. Two push button switches adjust the sensitivity of the sensor and the time with light diodes indicating when the switches are activated.



DOL 44R - CAPACITIVE SENSOR - 30 MM, RELAY, IP69K

DOL 44R is a complete range of 30 mm capacitive feed sensors with relay output. The sensors have robust functionality and are easy to operate. Settings are easily changed via two trimmers using a small screwdriver. DOL 44R has a high immunity to noise from electric communication (e.g. mobile phones) and transients (e.g. from motors and contactors). The IP69K protection class offers the highest protection against water and other liquids, e.g. during cleaning of livestock houses.

DOL 44R is available in a multitude of versions, such as the DOL 44RH with integrated heater for cold and/or high humidity applications, DOL 44RT for detection of feed in tubes and DOL 44R-33 with conical 32 mm enclosure.



Capacitive Feed Sensors

i-DOL 44R – CAPACITIVE SENSOR WITH WIRELESS SETUP – 30/32 MM, RELAY, IP69K

The i-DOL 44R is the future of feed sensors. Based upon the DOL 44R, the i-DOL 44R features setup and adjustment of parameters and settings through a wireless interface. Matched with the i-DOL companion app on your smartphone, the i-DOL 44R is both easier to operate and more flexible than any other capacitive feed sensor.

The i-DOL app allows for more parameters to be available for the user, compared to a traditional sensor with two trimmers operated by a screwdriver. The result is a more flexible sensor, which can be adapted to the individual need of the user.

At the same time, the i-DOL 44R sensor is also much easier to operate and understand, since the setup of parameters is done with a user-friendly user interface, which is easy to understand.

DOL 46R ATEX – CAPACITIVE SENSOR WITH ATEX APPROVAL – 30 MM, RELAY, IP69K

The DOL 46R capacitive feed sensor is designed for general detection of feed, grain and solids. DOL 46R is approved according to ATEX directive 2014/34/EU for operation in potential explosive dust atmospheres. The ATEX approval makes the DOL 46R suitable for installations with explosion risk due to dust from feed processing. The 46R is a 30 mm sensor with relay output.



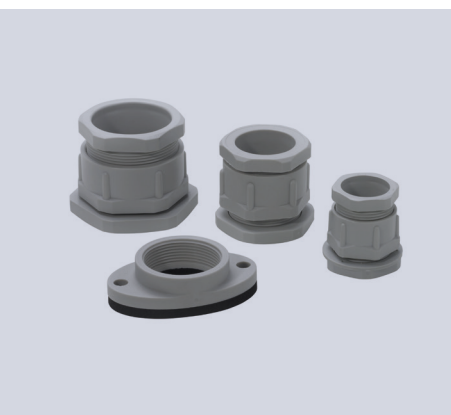


Accessories



DROP TUBE - PLASTIC TUBE FOR FEEDING SYSTEMS

The Drop Tube makes it easy to mount capacitive sensors in feeding systems for pigs and poultry. The Drop Tube is easily adapted to the applicable diameter. The Drop Tube has been specially developed for the DOL 20 sensor, but can also be used for mounting traditional capacitive sensors of the DOL 26, DOL 40R and DOL 44R series.



T-PIECE - PLASTIC T-PIECE FOR MOUNTING SENSORS ON PIPES

The T-bracket makes it easy to mount sensors on plastic pipes in pipe systems where the sensor detects the material through the plastic wall of the pipe. The bracket is suitable for pipes with diameters between 38 and 70 mm.

PLASTIC GLANDS - BUSHING FOR MOUNTING SENSORS

The plastic gland can be mounted in a silo wall for example by means of an internal locknut or from the outside by means of the enclosed flange.

ACCESSORIES - VARIOUS MOUNTING OPTIONS

There is also a range of spare parts that facilitate mounting and servicing of the capacitive sensors.

Our in-house R&D resources allows for custom-designed versions to meet specific needs from our customers. Our modern and flexible production facilities are equipped to produce sensors in small and large batches at very competitive prices.

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S E N S O R S

dol-sensors develops, produces and markets sensors for measuring feed, climate and production parameters. The products are primarily used for automated tasks within the agriculture and feed industries. Over the past 40 years dol-sensors has developed its range of sensors together with leading companies in this field.

Our sensors are developed and manufactured at in-house facilities in Denmark, which allows for effective processes and a quick and flexible turnaround.
We know how to make sense in your production.

For more information on dol-sensors visit our website at
www.dol-sensors.com



Climate



Feed



Production