



Sensors



Switches



Controls

Application notes



Application Note : July 2018

Market involved : Plastic & Rubber

Product : CA30CAN25...IO

Customer : OEMs

Subject : Detection of fill level and presence of the right plastic material

CUSTOMER ISSUE :

In plastic moulding plants, where several injection moulding systems are used, it is common to have a central storage container which distributes the plastic material to the different injection moulding machines through a pipe system.

When a matrix distribution box is used to change plastic material to the different plastic moulding machines, the flexible pipes can be wrongly mounted with the result that the wrong plastic material is sent to the machine.

OUR SOLUTION :

The new CA30CAN25...IO IO-Link sensor has a 16 bit "analogue" value in the cyclic process data file, giving information about the dielectric value of the media surrounding the sensor.

Different plastic materials have various dielectric values that can change if the humidity of the plastic material is for instance, too high.

Some plastic material can have dielectric values which are fairly similar, not allowing for easy distinction.

BENEFITS :

- The "analogue" value allows the customer to compare the dielectric value so that quality of production can be verified up-front, preventing eventual wastage.
- At the same time, the sensor gives information if the plastic material is present.