

CERAM – France

Dosing and mixing system

CERAM is a French specialist in dosing or mixing applications, extraction as well as automatic product preparation or transportation.

CERAM has built its reputation on a strong know-how in powders and granulates dosing for food industry, chemical or pharmaceutical industry.

Customer need

For one of its customer, CERAM has to design a system to feed an extruder for candy production.

The system is based on two hoppers for powders storage, each being equipped with load cells for dosing control. A third hopper is dedicated to receiving and mixing the batch after dosing. The mixed material feeds the candy extruder on continuous process.



SCAIME solution

SCAIME provides a solution with Schneider Electric in the framework of a formal collaborative program. This partnership ensures a perfect interconnectivity between Schneider Electric automation products and SCAIME weighing devices.

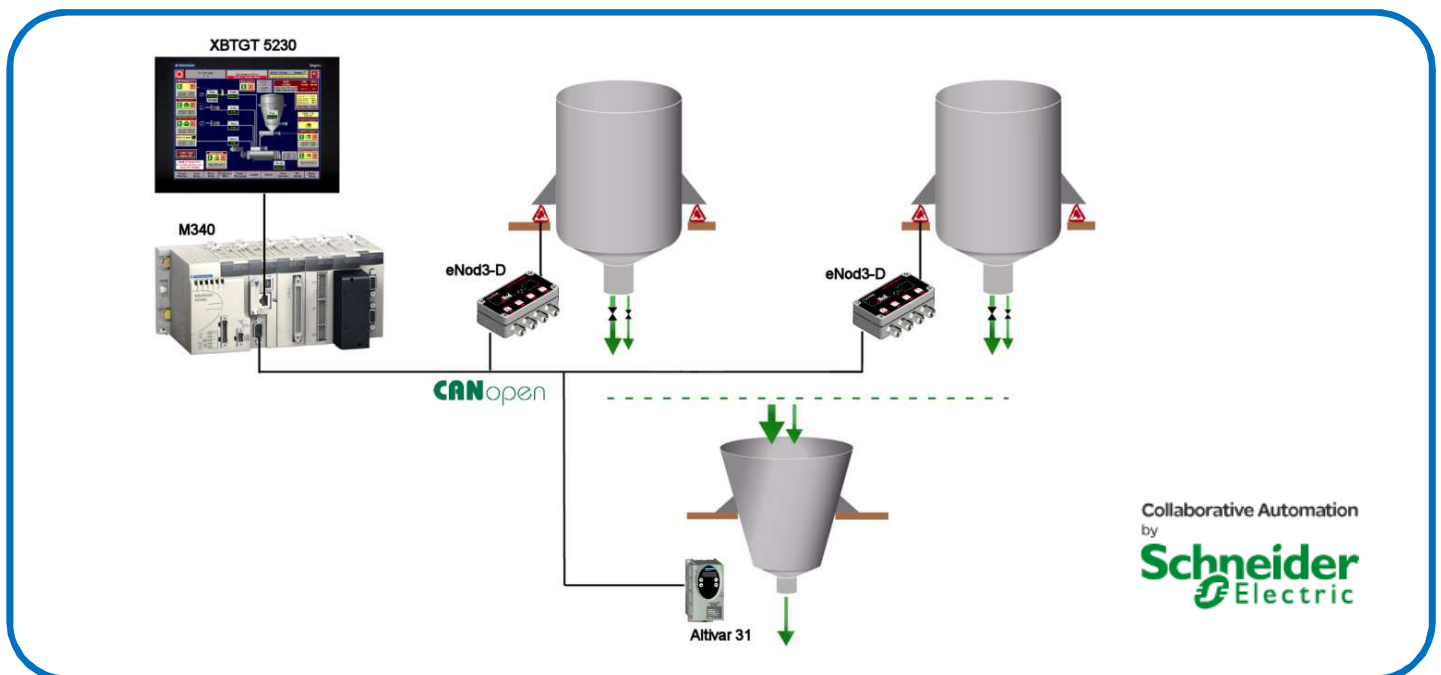
SCAIME products:

- 6 load cells F60X with mounting kits
- 2 dosing controllers eNod3-D on CANOpen

Automation products:

- 1 PLC Schneider Electric M340
- 1 HMI Schneider Electric XBTGT 5230

In this solution, the M340 PLC takes care of drive and general system controlling while weighing measurement tasks are sub-contracted to the eNod3-D controllers. Each eNod3-D works in parallel and takes care of dosing batch control by unloading. In parallel, the M340 controls the mixer and the extruder feeding.



Customer benefits

- Optimized architecture for best performances: devices being dedicated to tasks for which it is perfectly fitted.
- Easy and secured connectivity thanks to CANopen network.