

COD. AS1A00S2D001, AS1A00S2D003, AS1A00S2D004,  
AS1A00S2D005, ASDETROTUWT4, ASDETROTUWT5,  
ASDETROTUWT6, ASDETCAPEND1, ASDETCAPEND2, ASDETFIN

## TECHNICAL SPECIFICATIONS

5 types of sensors indicating max-min grain level inside the silo.

### A SY-SM1 MEMBRANE LEVEL SENSOR:

- Used as min-level detector, in free-flowing powdered and granulated products with a specific weight between 300 and 2500 kg/m<sup>3</sup>. It is not recommended as max-level detector.

**OPERATION** The pressure applied by the grain on a membrane, activates a switch and sends a signal.

- They are very robust and do not require power.
- Easy assembly, it adapts perfectly to the wavy shape of the body sheet and hopper.
- It incorporates a regulation column, which allows the adjustment of the sensitivity.

A



II 1/2D Ex ta/tb IIIC T80° Da/Db

### B SY-DP1 PENDULAR LEVEL SENSORS:

- Used as max-level detector.

**OPERATION** Due to the slope generated by the grain, the cone is displaced, activating a switch located at the end of the bar.

- Installed on the roof with a flange support.
- Robust and simple and do not need power and maintenance.
- The connection to the silo is done with a flange support.

B



II 1/2D Ex ta/tb IIIC T<sub>200</sub> 80°C/80°C Da/Db

### C SY-DR1 ROTATIVE LEVEL SENSORS

- Used as max-level, intermediate and min-level detector

**OPERATION** The blade is turning until the grain blocks the movement, and afterwards, sends a signal.

- Detects maximum level if they are installed on the roof, the intermediate level if they are installed in the body and the minimum level if they are installed at the silo hopper.
- Sensitive: feeding and maintenance are basic.
- Operation: 2 modes depending on the density of stored material.
- Installation: on a silo roof with a flange support and 1m extension kit. It adapts to body and hopper.

C



II 1/2D Ex ta/tb IIIC T<sub>200</sub> 80°C/80°C Da/Db

### D CAPACITIVE LEVEL SENSORS

- Used as max-level and min-level detector.

**OPERATION** Generate a signal while changing the conductivity of the surrounding environment of the device.

- Supplier : Endress Hauser
- Power is needed.
- Connection to the silo is done by a thread 1 1/2" for the max-level detector and 1" for the min-level detector.

D



### E LIMIT SWITCH SENSORS

- Detects if the access door located in the silo wall is closed or open.

**OPERATION** When the door is closed, press the button that activates the mechanism.

- Model ZCK-M1 with push button.
- It is installed between both leaves of the door, in the frame, so that the device sends the signal from the interior leaf, by means of a cable.

E

