Assembly and Connection instructions

Grain Control Drier AMY

ZGC600407EN 01/05/2024

Thank you for choosing Grain Control Drier AMY!

Grain Control Drier AMY must be assembled correctly and maintained thoroughly if it is to operate satisfactorily. These instructions for assembly. connection and use must be followed for our warranty to be valid.

We hope you will be pleased with your equipement for a long time.

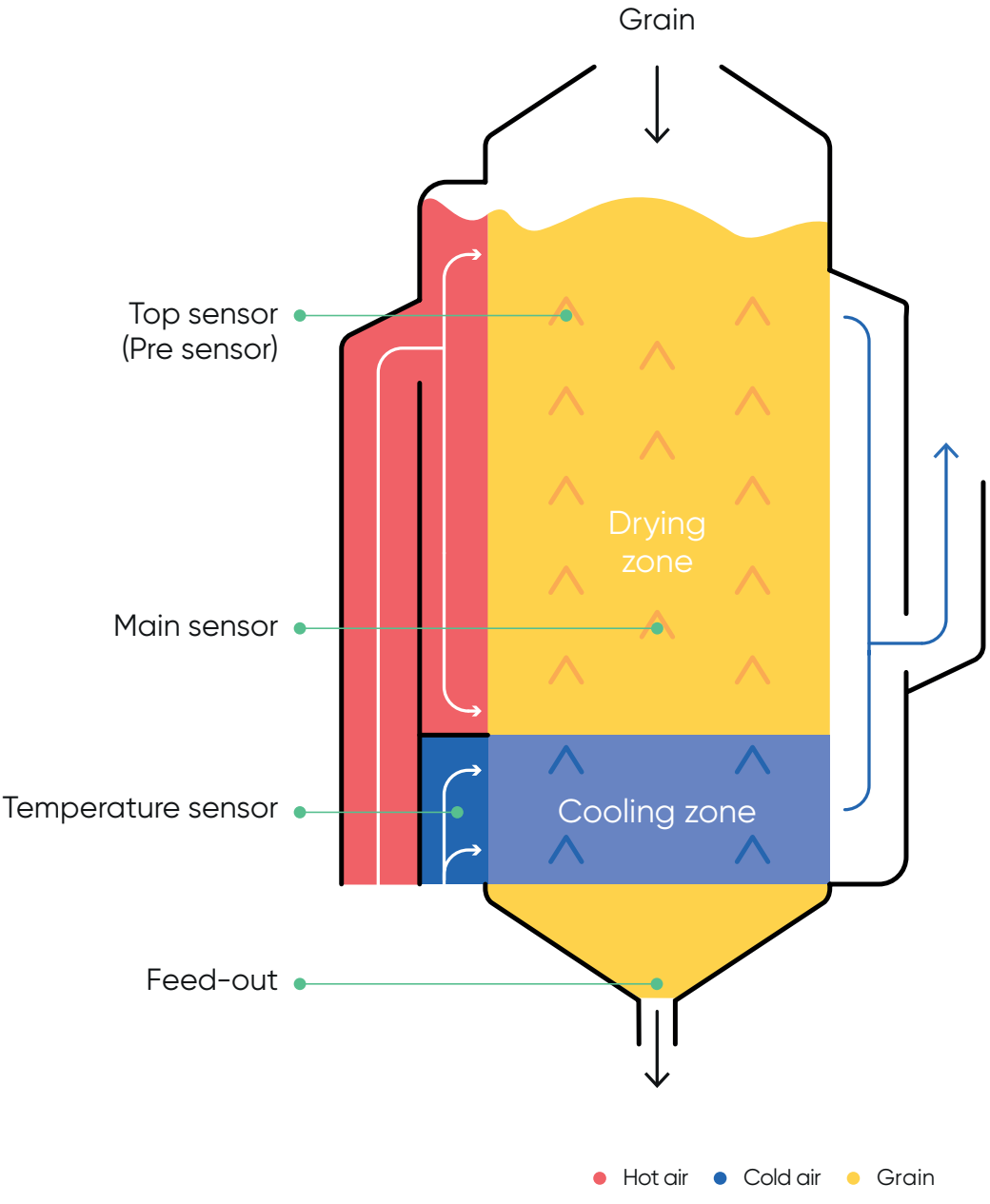
Grain Cloud and its sub-products are trademarks of Skandia Elevator AB and therefore Skandia Elevator AB is responsible for the warranty, CE marking and EC declaration according to this chapter.

Goods inspection

Check that the number of packages agrees with the delivery note and that the packing and goods are not damaged. Make a note of any damage and missing materials on the consignment note and report it to the carrier and to us. Make sure the delivery is complete after unpacking the goods. Any materials that are found to be incorrect must not be assembled.

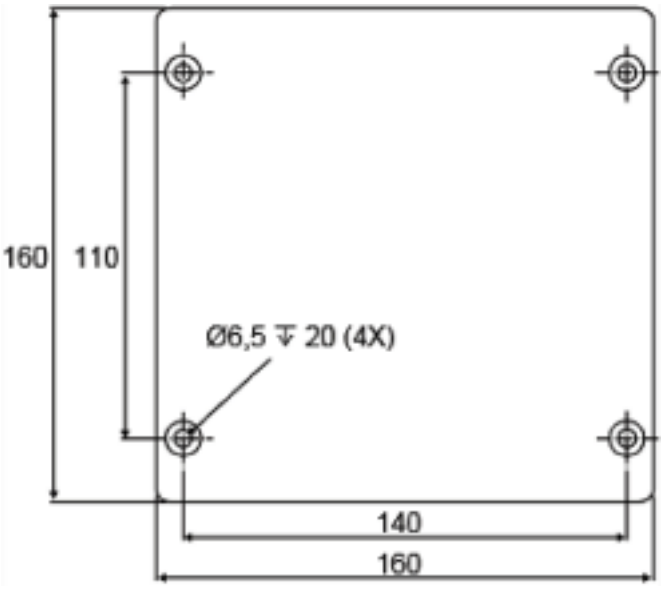
Warranty

A 2-year factory warranty from the day of delivery applies to all Skandia Elevator AB products. A condition of the warranty and any subsequent compensation is that Skandia Elevator AB is contacted and an agreement reached between the customer and Skandia Elevator AB on how any faults must be rectified. The warranty covers all parts that are damaged or break due to faulty design or manufacture. Faults and damage caused by faulty assembly, incorrect use or lack of maintenance will not be covered by the warranty.


Grain
Top sensor
(Pre sensor)
Drying
zone
Main sensor
Temperature sensor
Cooling zone
Feed-out
Hot air
Cold air
Grain

Measuring amplifier

Install the measuring amplifier in a way that it is accessible for calibration during future maintenance. There is about 1 meter of cable coming from the measurement amplifier, which can be spliced in an appropriate junction box. It should then be connected to the terminal block in the control center. Use a shielded cable. The length is unlimited, but the cable should be at least 3 x 0.5 mm^2.



Temperature sensor and pre sensor

Temperature sensor (A) and top sensor (pre sensor) (B) consist of a holder with two sensors.

Mounting the sensor holder in the drying beams can be done without tools.

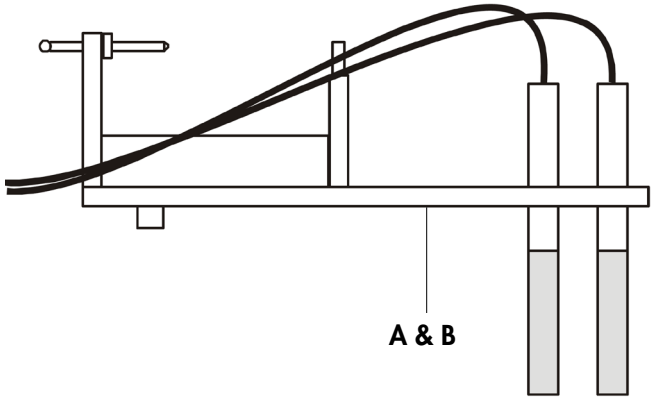
⚠ **IMPORTANT!**

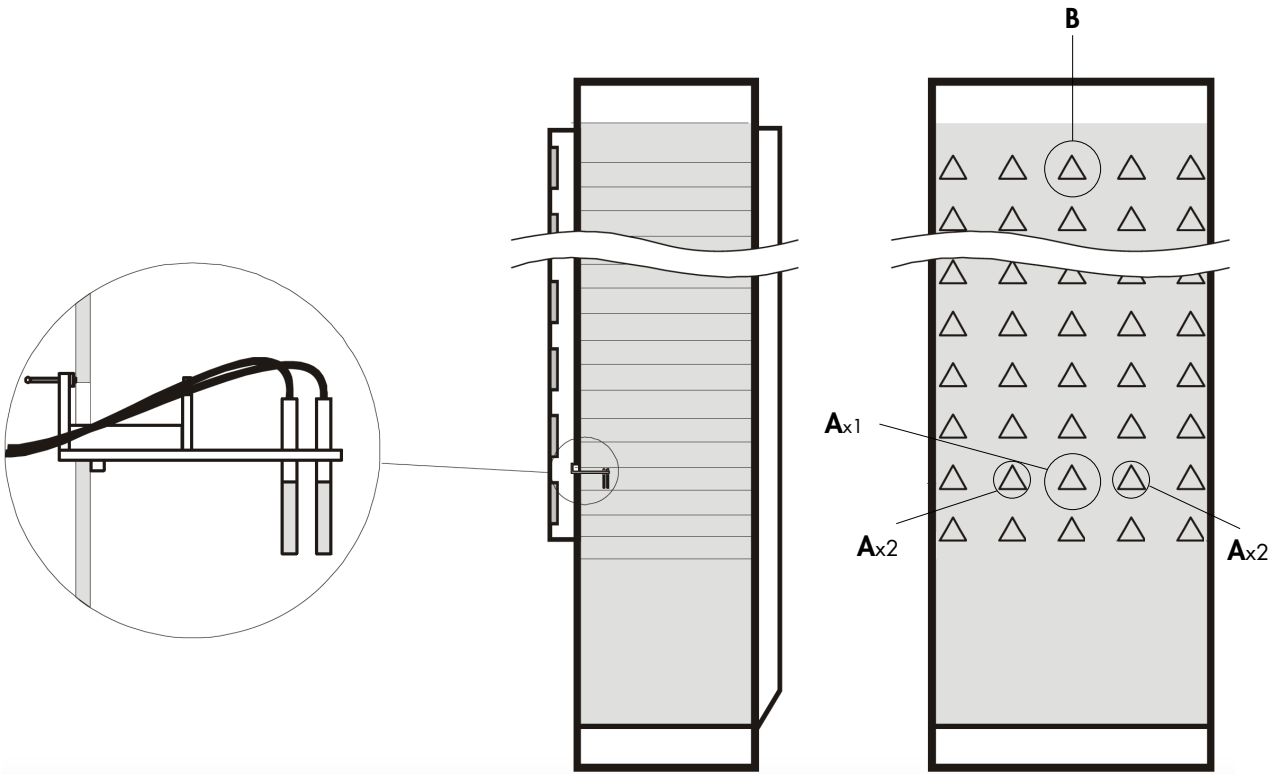
Ensure that the cables to the sensors have their original length; it is not permitted to shorten them!

Positioning

Place the temperature sensor (Ax1) in the middle drying beam, second row on the hot air side. NOTE! If two temperature sensors are used (Ax2), position them evenly across the second row.

Place the top sensor (pre sensor) (B) in the center, top row on the hot air side.

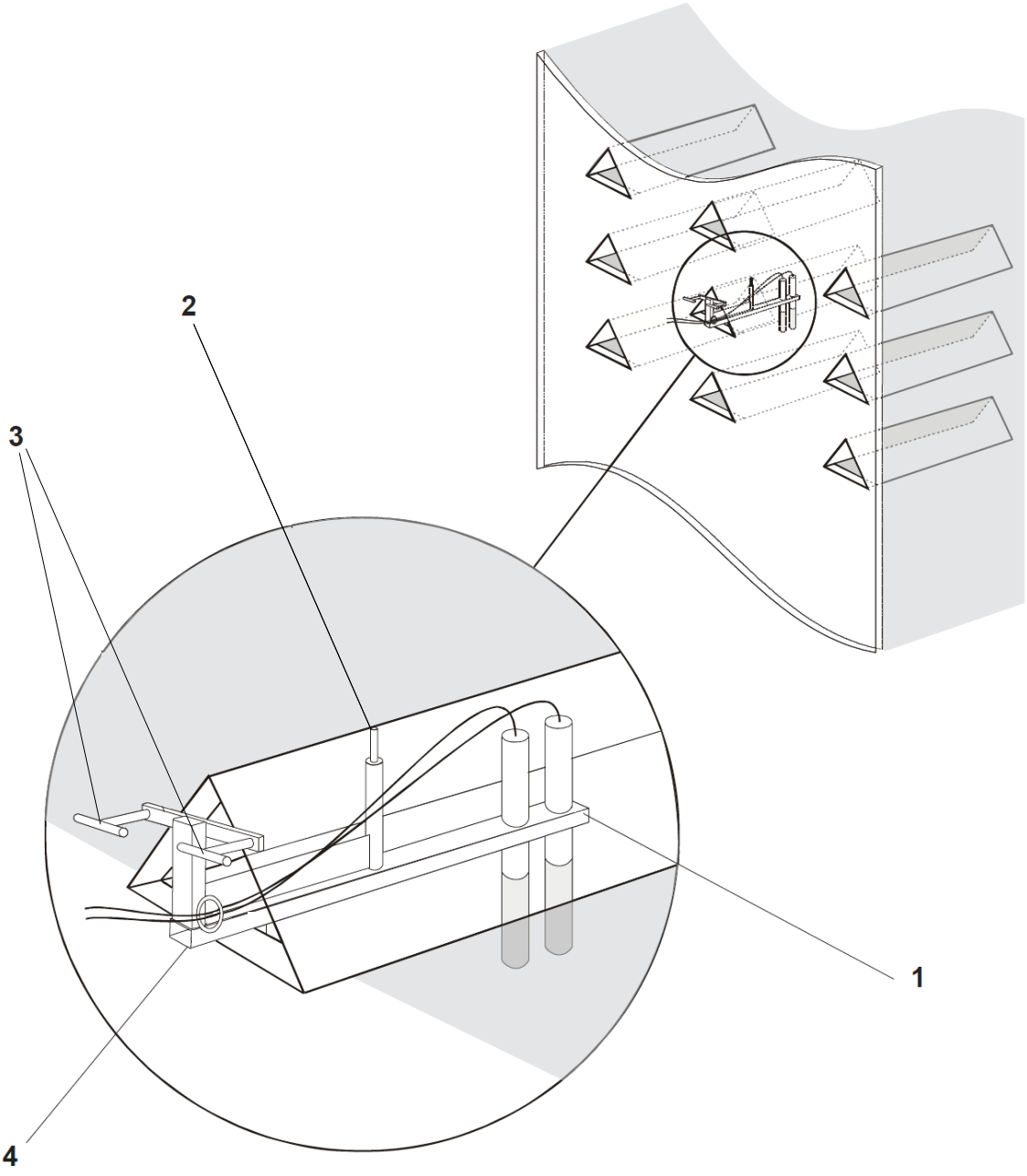




Mounting

Screw down screw (2) and unscrew screws (3). Place the sensor holder (1) in the drying beam so that the tab (4) rests against the middle of the triangle's lower edge. Adjust screw (2) until the sensor holder is horizontal. Tighten screws (3) and adjust so that the sensor holder points straight into the drying beam. NOTE! Do not tighten screws (3) more than is needed for the sensor holder to remain stable.

Check the installation and make any necessary adjustments.



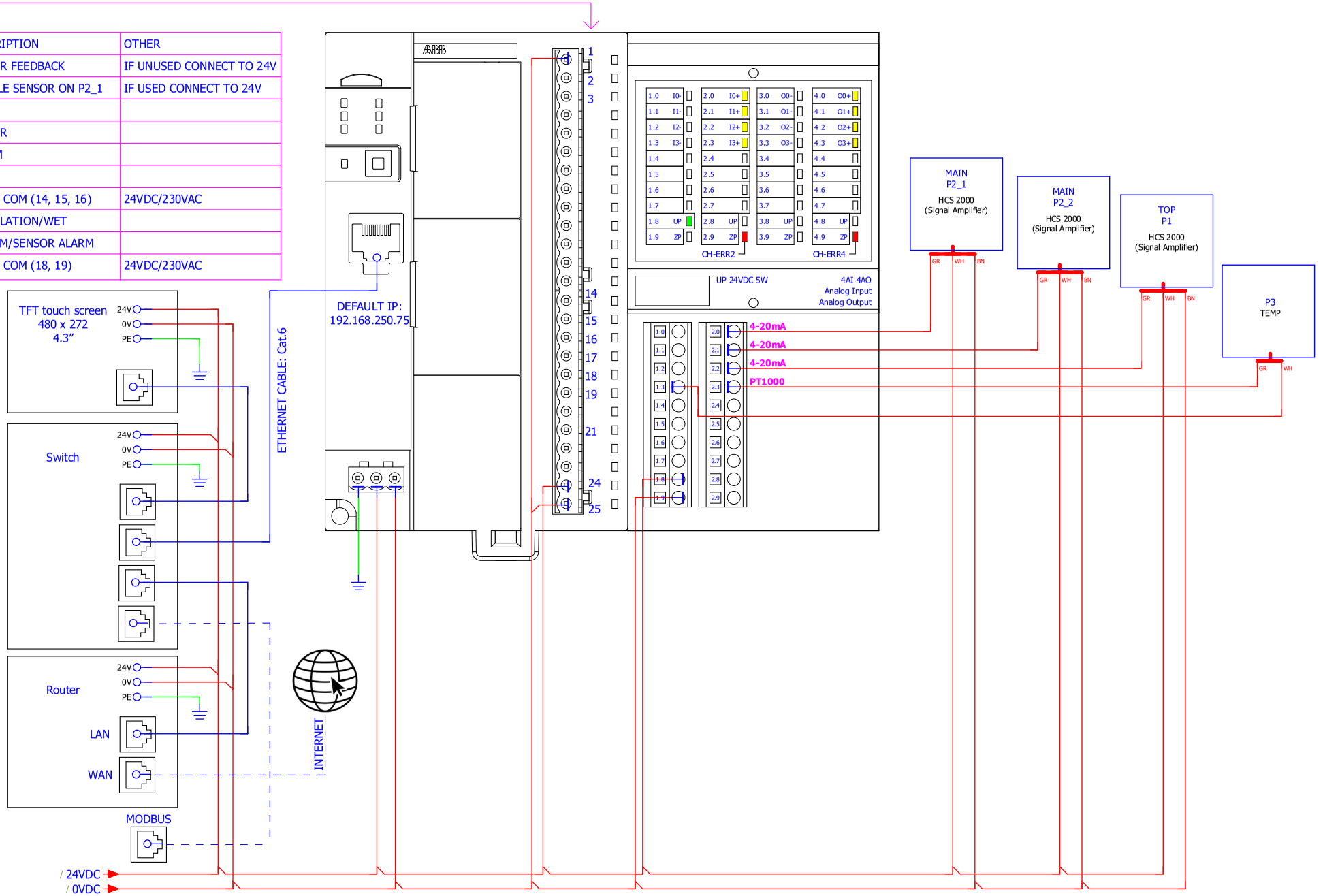
Connection

Voltage supply 24VDC.

NB! The same power source is to be used for the control unit, amplifier and any relays.

To control unit:	Power Terminal +24V for Plus. 0 V for Minus
Outputs:	Q0 = Feed Out (active during feed-out).
TR Out	Q1= Alarm (active during alarm).
	Q2= Dry (active when commodity is dry)
Amplifier:	+24VDC to white cable.
	0 V to brown cable.
	Signal 4-20 mA to green cable.

PIN	DESCRIPTION	OTHER
2	FEEDER FEEDBACK	IF UNUSED CONNECT TO 24V
3	DOUBLE SENSOR ON P2_1	IF USED CONNECT TO 24V
14	FEEDER	
15	ALARM	
16	DRY	
17	RELAY COM (14, 15, 16)	24VDC/230VAC
18	CIRCULATION/WET	
19	SYSTEM/SENSOR ALARM	
21	RELAY COM (18, 19)	24VDC/230VAC



Grain Control

Part of Grain Cloud

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