

MESC2075 – Digital Spread Controller



- 5-inch high resolution capacitive touchscreen
- Enhanced control and detailed spreading and system monitoring and logging via microSD card
- Programmable with USB
- Proportional control for up to 3 hydraulic solenoid coils
- ON/OFF control for up to 2 hydraulics solenoid coils
- ON/OFF control for up to 2 lightings
- Control for 1 linear actuator
- Various sensor inputs
- Reverse polarity and overcurrent/voltage protection

1. Description

MESC2075 salt spreader control box provides a complete control over proportional and ON/OFF valves, lights and linear actuator with its 5-inch **customizable** touchscreen, rotary digital encoders, various sensor inputs and detailed control parameters in microSD. MESC2075 also provides detailed spreading and system monitoring as all data is logged into the microSD card.

2. Area of use

- Salt spreaders
- Solution spreaders

3. Technical data

	Unit	Description, value
Supply voltage	V DC	12-30
Dimensions	mm	220 x 205 x 120
Connection type		42-pin connector and 5-pin or 8-pin connector
Protection class		IP 51
Outputs	A	Solenoid coils (proportional): 3 x 1,5 (max.) Solenoid coils (ON/OFF): 2 x 2 (max.) Lightings: 2 x 2,5 (max.) Linear actuator: 1 x 2,5 (max.)

4. Functions

Please refer to the user manual for functions.

5. Connections

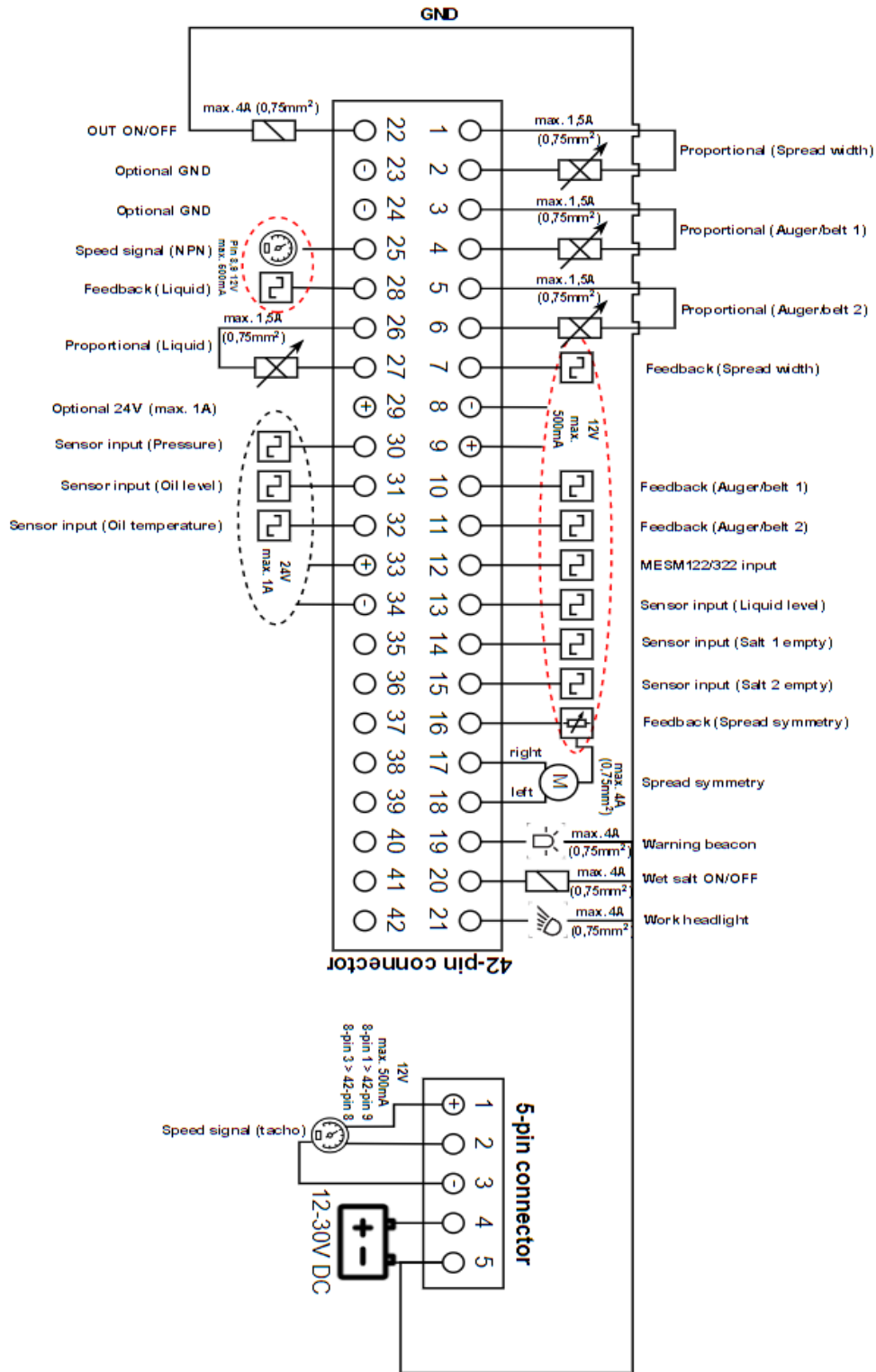
- **42-pin connector**

Pin Number	Connection	Pin Number	Connection
1	Proportional (Spread width)	22	Out ON/OFF
2	Proportional (Spread width)	23	GND (-)
3	Proportional (Auger/belt 1)	24	GND (-)
4	Proportional (Auger/belt 1)	25	Speed signal (NPN)
5	Proportional (Auger/belt 2)	26	Proportional (Liquid)
6	Proportional (Auger/belt 2)	27	Proportional (Liquid)
7	Feedback (Spread width)	28	Feedback (Liquid)
8	GNDref1 (-)	29	Uref1 12V
9	Uref1 12V	30	Sensor input (Pressure)
10	Feedback (Auger/belt 1)	31	Sensor input (Oil level)
11	Feedback (Auger/belt 2)	32	Sensor input (Oil temperature)
12	MESM122/322 Input	33	Uref2 24V
13	Sensor input (Liquid level)	34	GNDref2
14	Sensor input (Salt 1 empty)	35	n/a
15	Sensor input (Salt 2 empty)	36	n/a
16	Feedback (Spread symmetry)	37	n/a
17	Spread symmetry right	38	n/a
18	Spread symmetry left	39	n/a
19	Warning beacon	40	n/a
20	Wet salt ON/OFF	41	n/a
21	Work headlight	42	n/a

- **5-pin connector**

Pin Number	Connection
1	Uref1 12V
2	Speed signal (tacho)
3	GNDref1 (-)
4	Main Vcc (+)
5	Main GND (-)

- **Wiring diagram**



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