

QUICK GUIDE

CONTACT PRESSURE TRANSDUCER 250 BAR



DESCRIPTION

In this quick guide we want to explain the operation, connection and configuration of the contact pressure transducer of up to 250 bar.

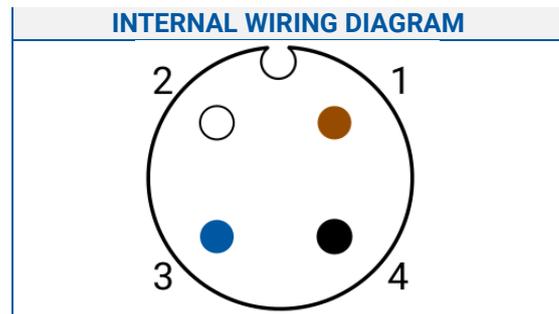

ATTENTION!

A maintenance technician is required to carry out the process. If you are not careful, you risk creating damage to the component, for which DAV Tech is not responsible.

This type of sensor is based on direct contact with the medium. Based on the pressure of the fluid itself, the sensor sends a current (or voltage) signal to the system, which is then decoded to give the correct value of the pressure read. This type of sensor works in analog mode, i.e. the signal is constantly sent such as to provide a real-time reading of the pressure on the section in which it is installed.

SPECIFICATIONS		
Description	UdM	Values
Electrical Characteristics		
Maximum continuous supply voltage	V	35
Maximum current	A	0.4
Output current (if set to I)	mA	4 ÷ 20
Output voltage (if set to U)	V	0 ÷ 10
Connector type	/	M12X4 pole Male
Fluid characteristics		
Pressure range	bar	0 ÷ 250

CONTACT DIAGRAM
01 – + 24 VDC (Brown)
02 – Analog Output/SP2 (White)
03 – 0 VDC (Blue)
04 – SP1/IO Link (Black)


DANGER!

Be careful with direct current (DC) wiring, as reversing the cables will damage the component, damaging it permanently, and may also cause fire.


ATTENTION!

You are asked to work in the absence of voltage when wiring


ATTENTION!

When installing this component, you must remove the blue cap located underneath it, otherwise the sensor cannot detect the pressure and, therefore, does not work.

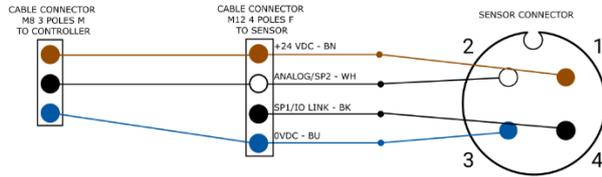

DANGER!

Once the cap has been removed, be careful not to damage the sensor membrane

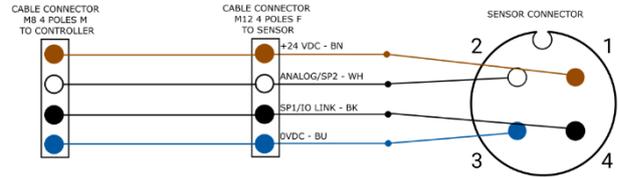
WIRING

CONNECTING TO CONTROLLERS

PRESSURE o PRE. OUT

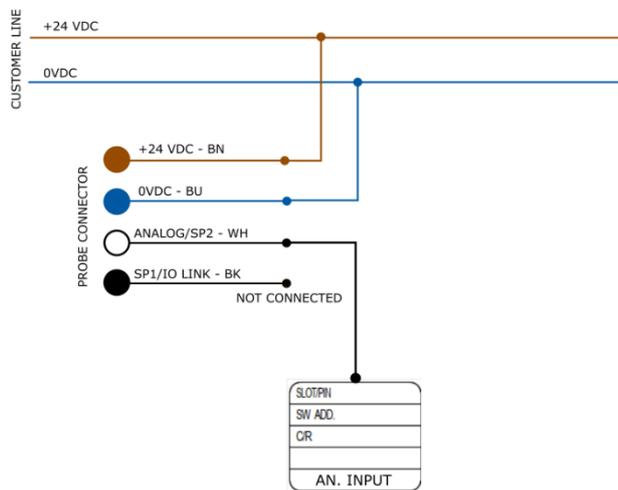


PRE. IN

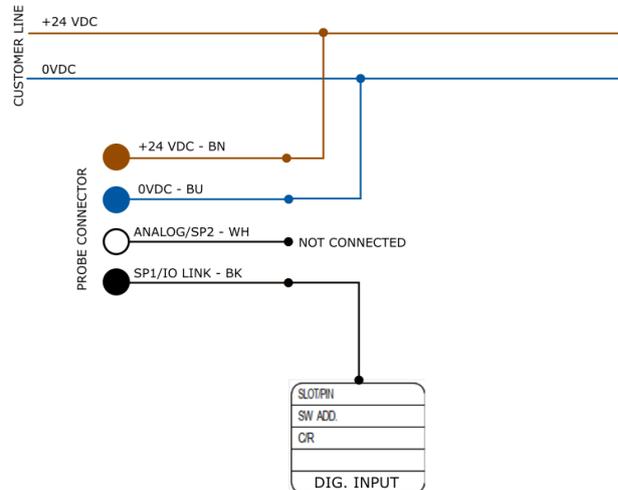


CONNECTION TO PLC

ANALOGIC



DIGITAL

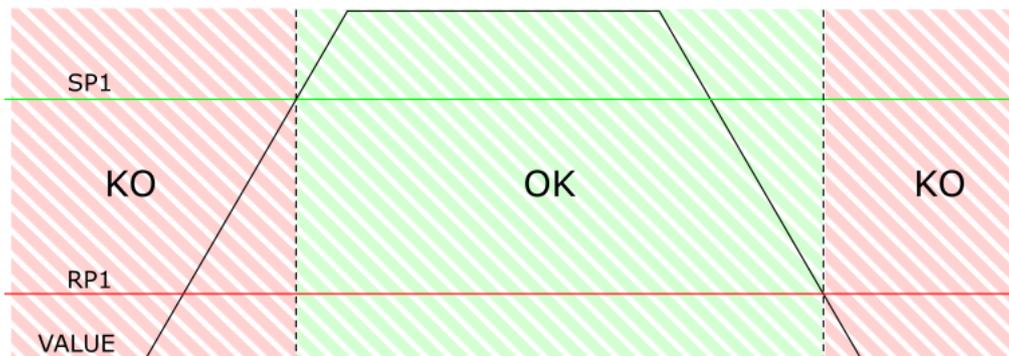


APPLICATION NOTES:

1. For connection to PLCs, you need to see the wiring diagram of the project to understand where they need to be connected precisely. If it is an external wiring diagram, ask the manufacturer for more information;
2. To diversify the connectors, it was decided to put an M8 3-pole F connector for the pressure connector at the outlet of the GP pump. To do this, you must connect the white wire of the M12 4-pin wire with the black wire of the M8 3-pin cable. In case you need to connect the connector to the PRE. IN you can use an M12 4-pole harness to connect it to the controller.

TRANSDUCER SETTING

- Press the "MENU" button for about 2 seconds;
- Using the arrows, navigate through the menu until you get to the item "SP1 (hysteresis function)";
- Set this item to the desired value. This value indicates the minimum value to be detected;
- Return to the main menu and, using the arrows, navigate through the menu until you get to the item "RP1 (Hysteresis function: reset point, switching, production)" and set the maximum allowed value. For a more detailed understanding of the meaning of RP1 and SP1 parameters, see the figure below;
- Go back to the main menu and look for the "EF" item. Enter this submenu;
- Scroll until you find the item "OUT3 (output signal switching)" and change the item from I (current) to U (voltage);
- Go back to the "EF" submenu and check that the value of the item "AHGH (Scaling/turndown of the measuring range)" is set to 200 bar;



CHANGE SCREEN ORIENTATION

- Press the menu button for about 2 seconds;
- Using the arrows, look for the "EF" item and enter this submenu;
- Scroll until you find the "DISR" entry;
- Select whether to rotate the display.

RESET PARAMETERS

- Press the menu button for about 2 seconds;
- Using the arrows, look for the "EF" item and enter this submenu;
- Scroll until you find the "RES" item;
- Press the button if you want to return to the factory settings.



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