

## QUICK GUIDE

### BUBBLE SENSOR



## DESCRIPTION

In this quick guide, we want to explain how to connect the air bubble detection sensor cables.


**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.

Air bubble detection sensors are used to detect discontinuities within the pipes themselves, to send a signal to the air bubble control system, to enable a system installed further downstream for the removal of the bubble itself. Below are some technical features

SPECIFICATIONS		
Description	UdM	Values
<b>General features</b>		
Minimum size of detected bubbles	\	Bubbles must be $\varnothing 1/3$ pipes diameter
Detection Cycle	$\mu s$	200
Type of fluids	\	Low viscosity without solid material
Type of protection	\	IP 67
<b>Electrical Characteristics</b>		
Continuous supply voltage	V	12 ÷ 30
Current consumption	mA	50
Wiring type	\	M12 5-pin male
<b>General characteristics</b>		
Fixing method	\	M4 (2 screws)
<b>Thermal characteristics</b>		
Working Temperature	°C	5 ÷ 60
Storage Temperature	°C	-20 ÷ 70

CONNECTION FEATURES		PIN
Cable color	Description	
<b>BLUE</b>	GND	
<b>BROWN</b>	12 ÷ 30 VDC power supply	
<b>BLACK</b>	PNP output max 150 mA	
<b>WHITE</b>	Service: Analog Control Input (5V/TTL)	
<b>GREY</b>	Service: Analog Control Output (5V/TTL)	


**DANGER!**

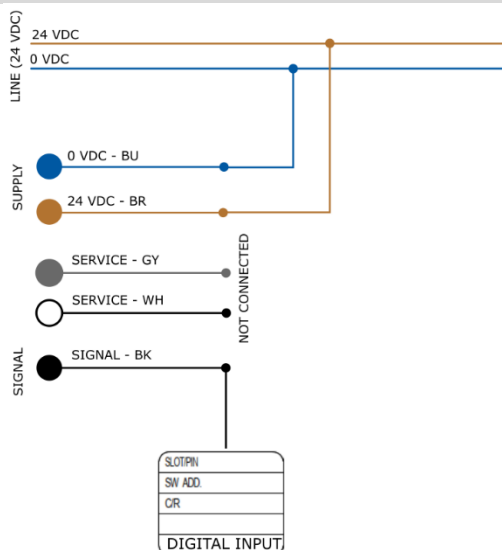
Be careful with direct current (DC) wiring, as reversing the cables will damage the component, damaging it permanently, and may also cause fire.


**ATTENTION!**

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

# WIRING

## CONNECTION TO PLC



**APPLICATION NOTES:**

1. For connection to PLCs, you need to see the wiring diagram of the project to actually understand where they need to be connected precisely. If it is an external wiring diagram, ask the manufacturer for more information.



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Seguitemi su

