Pinout comparison: WA3888-V2 versus WA3888

WA3888-V2

Pannel Connector #	Connection Type	Connector Type
1	Analog, Serial, 1 DIO	M12 8-pin male
2	Analog, Serial, 2 DIO, SDI-12	M12 8-pin female
3	Analog, Serial, 2 DIO, SDI-12	M12 5-pin male
4	Power	M8 3-pin male
ANT.	Antenna	SMA female

WA3888

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1	Analog, Serial, 1 DIO	M12 8-pin male
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4	Power	M8 3-pin male
ANT.	Antenna	SMA female

To provide 5 digital inputs/outputs, the WA3888-V2 devices have a slightly different pinout for the discrete and serial sensors ports than our previous WA3888. The serial pinout has not changed.

In summary:

- In panel connector #2, pin #6 was formerly RS232 RX, but in the V2 device, it is a Serial Digital Interface signal called "SDI-12". Pin #7 was formerly RS232 TX, but in the V2 device, it is a digital signal called "IO_3".
- In panel connector #3, pin #6 was formerly RS232 RX, but in the V2 device, it is a Serial Digital Interface signal called "SDI-12". Pin #7 was formerly RS232 TX, but in the V2 device, it is a digital signal called "IO_4".

To differentiate between the two Intrinsically Safe Wavelets, we have two different part numbers:

- For the classic Wavelet Ex, the part number is **WA3888-xx** (*xx* represents the different models for US, EU, and SA)
- For the Wavelet Ex-V2 with 5 digital I/Os, the part number is **WA3888-xx-V2** (*xx* represents the different models for US, EU, and SA).

For technical support, contact:
support@ayyeka.com
+1 (310) 876-8040 Ext. 3 (US)
+31 (40) 209-1001 Ext. 3 (EMEA)

Pinout comparison: WA3888-V2 versus WA3888

WA3888-V2

WA3888

Front view

Bottom view

Panel connector #4
M8 3-pin male

Panel connector #3
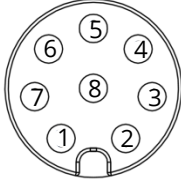M12 5-pin male

Panel connector #1
M12 8-pin male

Panel connector #2
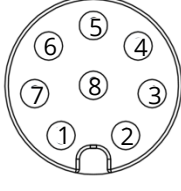M12 8-pin female

Antenna connector
SMA female

Pinout: Wavelet Ex V2
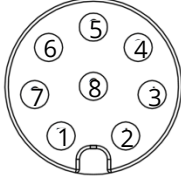
PANEL CONNECTOR #1 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #1		
2	PCNT_0 – pulse counting, edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #1 (+)		
5	RS485 B		
6	RS232 RX		
7	RS232 TX		
8	GND		
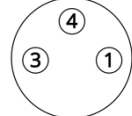
PANEL CONNECTOR #2 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #2		
2	PCNT_1 – pulse counting, edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #2 (+)		
5	RS485 B		
6	SDI-12		
7	IO_3 – periodic or output Dry contact, open drain, 0V or 2.8V (max)		
8	GND		

PANEL CONNECTOR #3 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #3		
2	IO_2 – edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #3 (+)		
5	RS485 B		
6	SDI-12		
7	IO_4 – edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
8	GND		
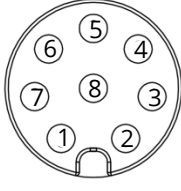
EXTERNAL POWER – PANEL CONNECTOR #4 – M8 3-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	6-12VDC		
3	No Connection		
4	Negative (-)		

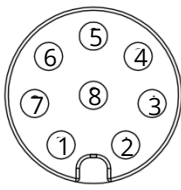# Pinout: Wavelet Ex
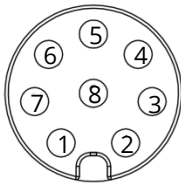
PANEL CONNECTOR #1 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #1		
2	PCNT_0 – pulse counting, edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #1 (+)		
5	RS485 B		
6	RS232 RX		
7	RS232 TX		
8	GND		
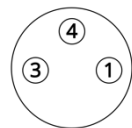
PANEL CONNECTOR #2 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #2		
2	PCNT_1 – pulse counting, edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #2 (+)		
5	RS485 B		
6	RS232 RX		
7	RS232 TX		
8	GND		

PANEL CONNECTOR #3 – M12 8-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	4-20mA or 0-24V Input #3		
2	IO_2 – edge, periodic, output Dry contact, open drain, 0V or 2.8V (max)		
3	RS485 A		
4	Wavelet 12V Power Supply #3 (+)		
5	RS485 B		
6	RS232 RX		
7	RS232 TX		
8	GND		

EXTERNAL POWER – PANEL CONNECTOR #4 – M8 3-PIN MALE

Connector Pin #	Signal	Cable Connector Pin Assignment	
		Front	Back
1	6-12VDC		
3	No Connection		
4	Negative (-)		