

Wiring issue

The TiM781 typically follows the conventional European DC color code where the Brown wire is to be connected to +24VDC and the Blue wire is to be connected to 0VDC (Ground). This is what is reflected in the datasheet as captured below:

6.4.1 TiMxxx-21xxxx

"Power/I/O" connection

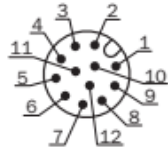


Table 7: Male connector, M12, 12-pin, A-coded

Pin	Signal	Function	Wire colors connecting cable part no. 6054974 (5 m), 6054973 (10 m), 6054972 (20 m) ¹
1	GND	Ground	Blue
2	DC 9 V ... 28 V	Supply voltage	Brown
3	IN 1	Switching input 1 (field set selection)	Red
4	IN 2	Switching input 2 (field set selection)	Green
5	OUT 1	Switching output 1 (field breach)	Pink
6	OUT 2	Switching output 2 (field breach)	Yellow
7	OUT 3	Switching output 3 (field breach)	Black
8	OUT 4	Switching output 4 (index/error)	Gray
9	INGND	Common ground for all inputs	White
10	IN 3	Switching input 3 (field set selection)	Violet
11	IN 4	Switching input 4 (field set selection)	Gray + pink
12	N.c.	-	Red + blue
-	-	Screen	

¹ Example values when using the specified connecting cable(s). Signal assignment and wire colors can vary when using other connecting cables.

HOWEVER, the batch of cables sent to the teams have the brown and blue wires switched so please power the TiMs using Brown connected to 0VDC and Blue connected to +24VDC. All other color codes are correct (for digital I/O and Ethernet, etc).

If you've already reverse-wired the sensors (per the datasheet), do not worry. The power inputs are reverse-wiring protected so no permanent damage will occur. Simply switch the wiring as I've outlined above and you should see a normal startup within about 15 seconds. We apologize for any confusion or setback this issue may have caused.