

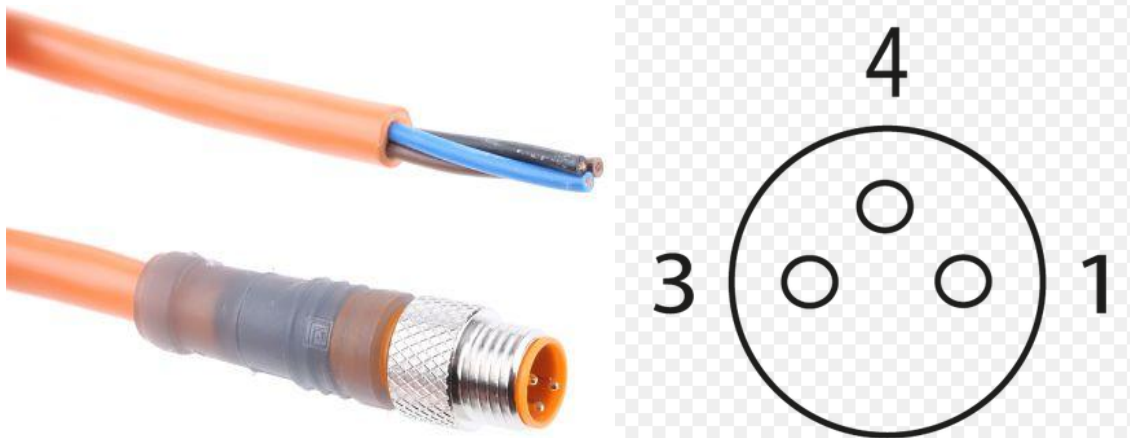
Two-Wire-SDI12 Converter Short Manual

(Revisions v1 and v2BT)

1. Connect Two-Wire-Sensors

Connect your sensors (or Thermistorstring) to the “M8 industrial 3 pole connector” of the converter.

The following schematic shows the pin-usage at sensor-side (cable with male plug).



- Brown (1): Data
- Black (4): GND (-)
- Blue (3): not connected

The connection “Two-Wire-Sensors” follows the “BUS-topology”. Each sensor is electrically connected to the same Data- and GND-line!

2. Connect the SDI12-Interface

Connect the converter to the SDI12-Interface of your data-recorder, using the following cables:

- Brown for “ Revision v1”: Supply (+8 to +14 Volt, >60 mA cont.)
for “ Revision v2BT”: Supply (+3.6 to +14 Volt, >30 mA cont.)

- Black: GND (-)
- Blue: Data

3. Communication

Use the following SDI12 commands from the sample code to measure and read values from a properly configured converter. Wait at least 800 ms after power up for first command!

Combined with a Thermistorstring, the converter is **fully configured at delivery!**

“>>” marks the command to the sensor, “<<” is the response. Each Command and response ends with <CR><LF>. Default address “1” is used.

```
>> "1M0!"
<< "10089"
<< "1"
>> "1D0!"
<< "1[Value 0-2]"
>> "1D1!"
<< "1[Value 3-5]"
>> "1D2!"
<< "1[Value 6-8]"
>> "1M1!"
<< "10014"
<< "1"
>> "1D0!"
<< "1[Value 9-11]"
>> "1D1!"
<< "1[Value 12]"
```

**For more information please refer to
“Doku_SD1_Converter”:**

<https://www.thermistor-string.com/additional-string-information/documentation-thermistor-string/category/3-documentation>