

Connecting a sensor to the M12 connector on Logger WD-68 and 4WD

Logger WD-68 and Logger 4WD use a standardized M12 connector that lets you connect sensors in a plug-and-play fashion.

Sensors provided directly by Consibio have this connector attached by default. You can also attach the connector to third-party sensors and use the same plug-and-play functionality. The specification for the M12 connector is defined below.

Disclaimer

Using a custom connector is always at your own risk. Wiring the connector wrong can potentially damage the Logger. This — or any other fault induced by a custom connector or sensor — is not covered by the standard warranty on the Logger.

M12 sensor plug specification

Plug specification

Any M12 plug with the specifications below should work with the Logger.

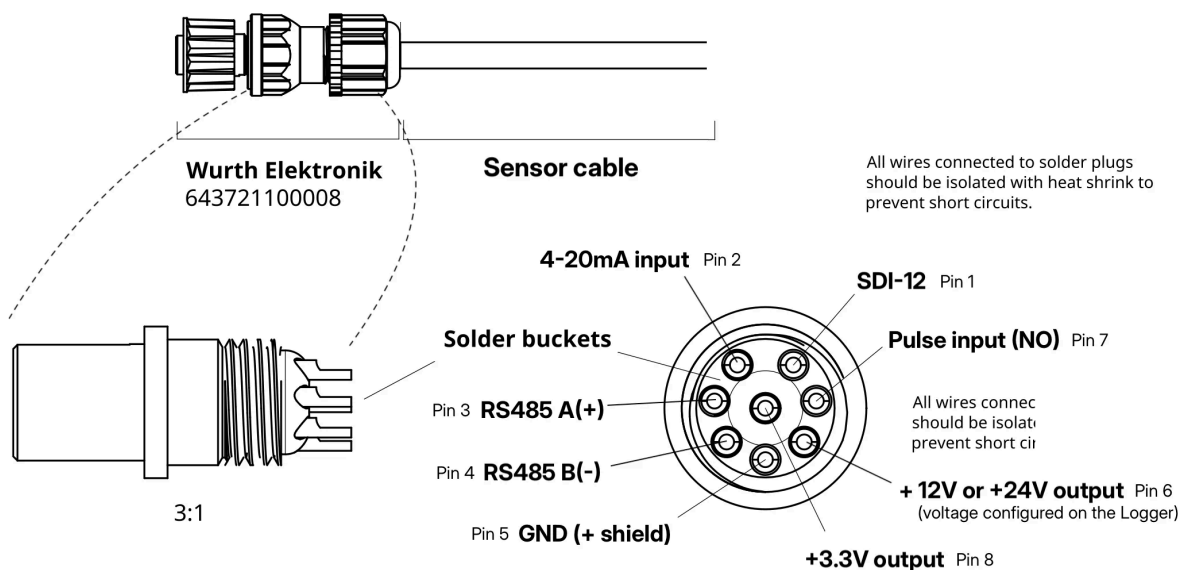
Parameter	Value
Connector	M12
Pins	8
Coding	A
Gender	Female

We suggest the part [643721100008 from Würth Elektronik](https://www.we-online.com/en/components/products/CIRCULAR_WR_CIRCM12_FIELD_ATTACHABLE_SOLDER?sq=643721100008#64372110000) (https://www.we-online.com/en/components/products/CIRCULAR_WR_CIRCM12_FIELD_ATTACHABLE_SOLDER?sq=643721100008#64372110000)

g). It requires soldering, but has a high IP rating (IP68). If lower IP ratings can be tolerated, other screw-type connectors can also be used.

Signal lines

Pin no.	Signal
1	SDI-12
2	4-20mA input
3	RS485 A(+)
4	RS485 B(-)
5	GND (+ shield)
6	+12 or +24V output for sensor supply (configured on the Logger)
7	Pulse input (NO, Normally Open)
8	+3.3V output for sensor supply

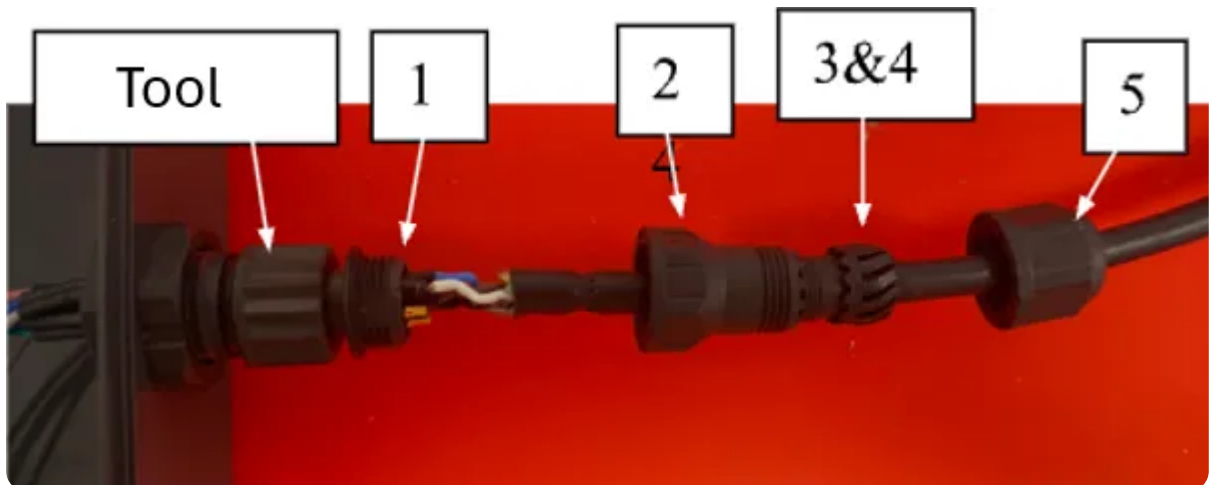


Mounting the 643721100008 M12 sensor plug

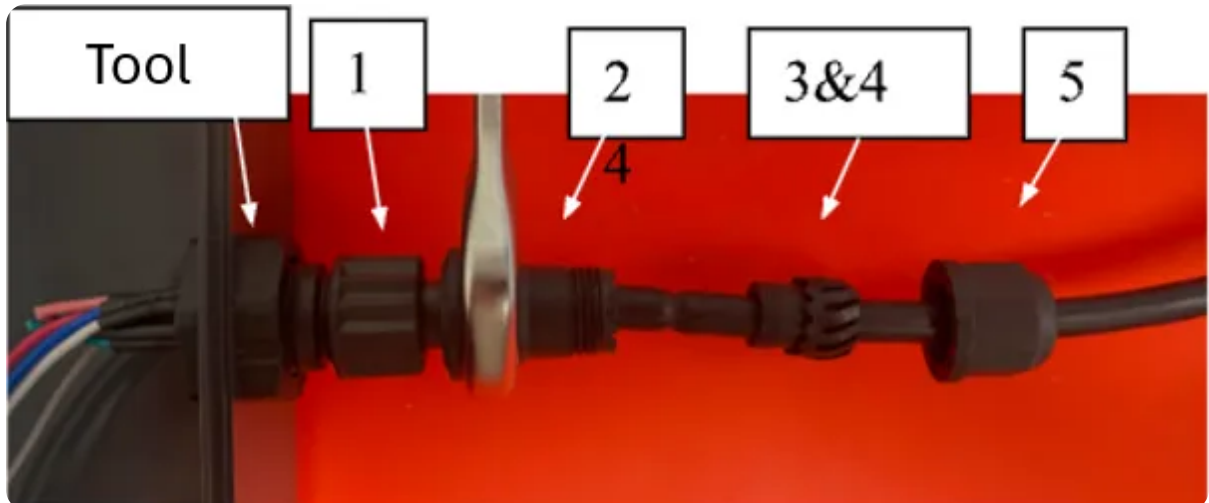
This guide refers to the suggested M12 sensor plug: [643721100008](https://www.we-online.com/en/components/products/CIRCULAR_WR_CIRCM12_FIELD_ATTACHABLE_SOLDE_R?sq=643721100008#643721100008) from Würth Elektronik (https://www.we-online.com/en/components/products/CIRCULAR_WR_CIRCM12_FIELD_ATTACHABLE_SOLDE_R?sq=643721100008#643721100008).

To mount the M12 sensor plug, follow the steps below:

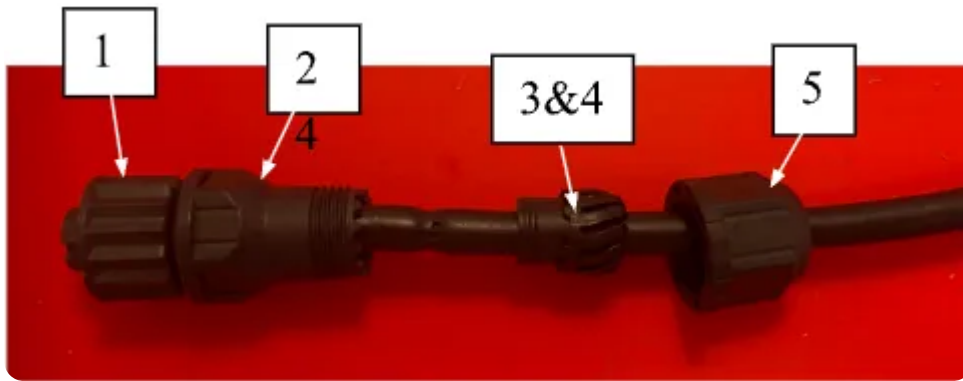
1. Install the sensor plug onto the "Tool", the counterpart of the sensor plug.



2. Screw part "2" onto part "1".



3. Unplug the sensor plug from the tool. Install the two gaskets (part 3 and part 4) onto part 2.



4. With the two gaskets aligned properly between part 2 and part 5, screw these together.



The fully assembled M12 sensor plug is shown below.



If you run into trouble wiring or mounting the connector, contact support@consibio.com.