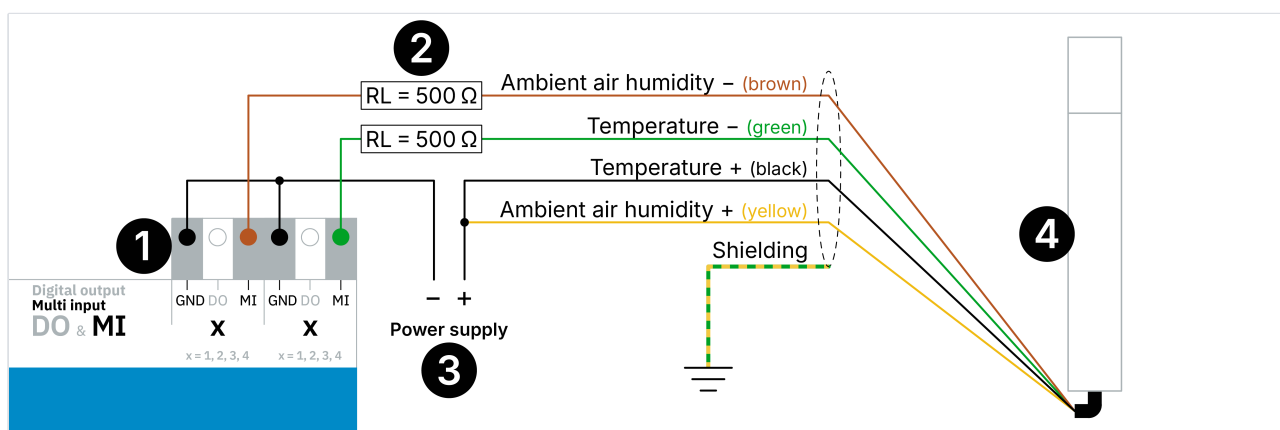


# mc compact hygro-thermal sensor

## Connection to bluelog Neo

- At a supply voltage of 24 V DC at the sensor, the load resistance (cable + input resistance data logger) should be between 600  $\Omega$  and 700  $\Omega$  to obtain the best measurement results.
- The input resistance of the data logger is 40  $\Omega$ .
- The installation of an additional resistance (approx. 500  $\Omega$ ) improves the measurement accuracy of the sensor.



mc compact hygro-thermal sensor: Sensor connection

|   | Description                                        |
|---|----------------------------------------------------|
| 1 | Data logger terminal, digital output / multi-input |
| 2 | Load resistor                                      |
| 3 | External power supply                              |
| 4 | Hygro-thermal sensor                               |

## Connection

| Wire color   | Use                                                |
|--------------|----------------------------------------------------|
| Brown        | Ambient air humidity signal (4 ... 20 mA)          |
| Green        | Temperature signal (4 ... 20 mA)                   |
| Black        | Temperature sensor power supply (24 V DC)          |
| Yellow       | Ambient air humidity sensor power supply (24 V DC) |
| Green/Yellow | Shielding                                          |

### Configuration data

| Measurement          | Input              | Unit    | Gradient | Offset |
|----------------------|--------------------|---------|----------|--------|
| Temperature          | Analog 4 ... 20 mA | °C      | 6.25     | -55    |
| Ambient air humidity | Analog 4 ... 20 mA | % r. h. | 6.25     | -25    |

### Item numbers

| Sensor                          | Item nos. |
|---------------------------------|-----------|
| mc compact hygro-thermal sensor | 423.309   |