

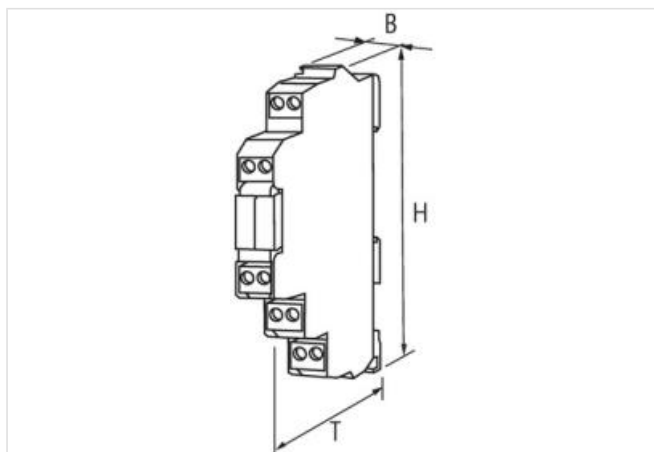
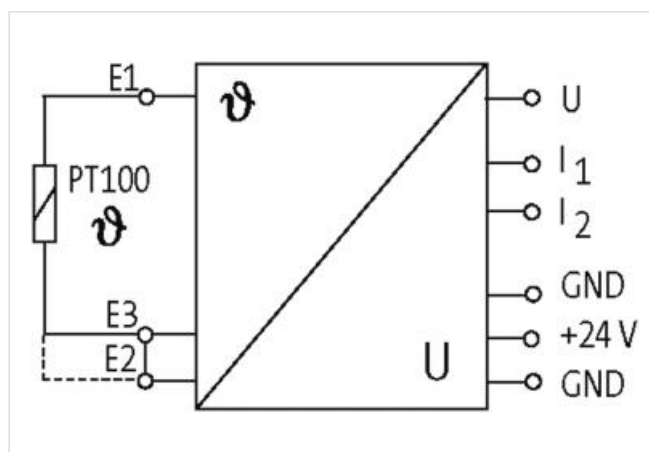
**MIRO TEMP. CONVERTER PT100 - 2 /3-LEAD METHOD**

IN: -50°C...+50°C - OUT:0...10 V / (0)4...20 mA

INPUT: -50...+50 °C

Screw terminals

Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor. This is linearized and converted into the corresponding output signals at the OUT terminals. All 3 signals can be used simultaneously. The 2-wire technique can be used for short distances between PT100 sensor and MTW module (<5 m). The 3-wire measuring method must be used for longer distances to compensate the measuring line resistance. For this purpose, a 3rd line (same length and design as the two measuring lines) is required. In this case, the factory-equipped bridge connecting E2 and E3 must be removed.

[Link to Product](#)**Illustration**

Product may differ from Image

**Commercial data**

ECLASS-6.0

27210990

|                       |               |
|-----------------------|---------------|
| ECLASS-6.1            | 27210190      |
| ECLASS-7.0            | 27210190      |
| ECLASS-8.0            | 27210190      |
| ECLASS-9.0            | 27210129      |
| ECLASS-10.1           | 27210129      |
| ECLASS-11.1           | 27210129      |
| ECLASS-12.0           | 27210129      |
| ETIM-5.0              | EC001446      |
| customs tariff number | 85437090      |
| GTIN                  | 4048879028264 |
| Packaging unit        | 1             |

#### Electrical data

|                          |     |
|--------------------------|-----|
| Accuracy (of full scale) | 1 % |
|--------------------------|-----|

#### Electrical data | Supply

|                           |       |
|---------------------------|-------|
| Operating voltage DC      | 24 V  |
| Operating voltage DC min. | 18 V  |
| Operating voltage DC max. | 30 V  |
| Operating current max.    | 80 mA |

#### Electrical data | Output

|                         |       |
|-------------------------|-------|
| Load max.               | 25 mA |
| Working resistance max. | 500 Ω |

#### Device protection | Electrical

|                            |     |
|----------------------------|-----|
| Overload protection output | yes |
|----------------------------|-----|

#### Mechanical data | Mounting data

|                            |                           |
|----------------------------|---------------------------|
| Mounting method            | geschnappt                |
| Suitable for mounting type | mounting rail, (EN 60715) |
| Height                     | 90 mm                     |
| Width                      | 12,4 mm                   |
| Depth                      | 70 mm                     |

#### Environmental characteristics | Climatic

|                            |       |
|----------------------------|-------|
| Operating temperature min. | 0 °C  |
| Operating temperature max. | 60 °C |

#### Connection type 10

|                          |                    |
|--------------------------|--------------------|
| Connection type 1        | X1                 |
| Connection type 2        | X2                 |
| Connection type 3        | X3                 |
| Connection type 4        | X4                 |
| Connection type 5        | X5                 |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| Color contact carrier    | green              |
| No. of poles             | 2                  |
| PIN 1                    | n.c.               |
| PIN 2                    | E 1                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| Color contact carrier    | green              |
| No. of poles             | 2                  |

|                          |                    |
|--------------------------|--------------------|
| PIN 1                    | 0 V                |
| PIN 2                    | U                  |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| Color contact carrier    | green              |
| No. of poles             | 2                  |
| PIN 1                    | E 3                |
| PIN 2                    | E 2                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| Color contact carrier    | green              |
| No. of poles             | 2                  |
| PIN 1                    | I 2                |
| PIN 2                    | I 1                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| Color contact carrier    | green              |
| No. of poles             | 2                  |
| PIN 1                    | 24 V DC            |
| PIN 2                    | 0 V                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| No. of poles             | 2                  |
| PIN 1                    | + 24 V DC          |
| PIN 2                    | - 24 V DC          |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| No. of poles             | 2                  |
| PIN 1                    | E 3                |
| PIN 2                    | E 2                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| No. of poles             | 2                  |
| PIN 2                    | E 1                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| No. of poles             | 2                  |
| PIN 1                    | U                  |
| PIN 2                    | 0 V                |
| Connection               | Screw terminals SK |
| Family construction form | terminal           |
| Gender                   | female             |
| No. of poles             | 2                  |
| PIN 1                    | I 1                |
| PIN 2                    | I 2                |