

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

IN: 0°C..+100°C - OUT:0..10 V / (0)4..20 mA

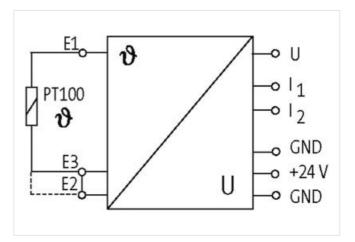
INPUT: 0...100 °C Screw terminals

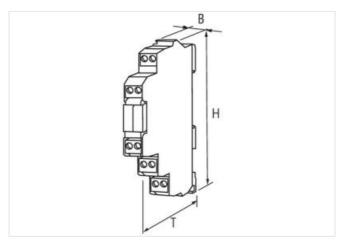
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor. 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



stay connected

| 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                                 | 4048879028240             |
| 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             | 35                        |
|                                      |                           |
| 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   Clir | natic                     |
| Operating temperature min.           | 0 °C                      |
| Operating temperature max.           | 60 °C                     |
| Connection type 10                   |                           |
|                                      | V4                        |
| Connection type 1 Connection type 2  | X1<br>X2                  |
| Connection type 3                    |                           |
| Connection type 3  Connection type 4 | X3<br>X4                  |
| Connection type 4  Connection type 5 | X5                        |
| Connection type 5                    | Screw terminals SK        |
| Family construction form             | terminal                  |
| Gender                               | female                    |
| Color contact carrier                | green                     |
| No. of poles                         | 2                         |
| PIN 1                                | n.c.                      |
| PIN 2                                | E1                        |
|                                      |                           |
| Connection                           | Screw terminals SK        |
| Family construction form             | terminal                  |
| Gender                               | female                    |
| Color contact carrier                | green                     |
| No. of poles                         | 2                         |

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-30



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| 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                    | 12                 |
| PIN 2                    | I1                 |
| 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 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                    | E1                 |
| 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                    | I1                 |
| PIN 2                    | 12                 |