



|                                 |                                                                                                                                                                                         |                      |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Identification</b>           | Type                                                                                                                                                                                    | WPT 7-1820           |
|                                 | Part-No.                                                                                                                                                                                | 751820               |
| <b>Input</b>                    |                                                                                                                                                                                         |                      |
| Measurement input               | PT100, 3-wire                                                                                                                                                                           |                      |
| Galvanic isolation I/O          | 2-way isolation                                                                                                                                                                         |                      |
| Temperature range               | Settings according to customer order. -200 °C - 800 °C. Please specify temperature range when ordering. Please observe: Smallest temperature span 50°C, largest temperature span 500°C. |                      |
| Transmission frequency          | 10 Hz                                                                                                                                                                                   |                      |
| Input resistance                | 240 kΩ                                                                                                                                                                                  |                      |
| Sensor current                  | 0.5 mA                                                                                                                                                                                  |                      |
| Zero /Span                      | Production comparison                                                                                                                                                                   |                      |
| <b>Load Side</b>                |                                                                                                                                                                                         |                      |
|                                 | <b>750820/751820</b>                                                                                                                                                                    | <b>750821/751821</b> |
| Output signal                   | 4–20 mA                                                                                                                                                                                 | 0 – 10 V             |
| Max. load impedance at I-output | 400 Ω                                                                                                                                                                                   |                      |
| Max. load impedance at U-output |                                                                                                                                                                                         | >1 kΩ                |
| Load impedance                  |                                                                                                                                                                                         | 55 Ω                 |
| Output current                  |                                                                                                                                                                                         | max. 21 mA           |
| Output signal                   | 4–20 mA                                                                                                                                                                                 |                      |
| Max. load impedance at I-output | 400 Ω                                                                                                                                                                                   |                      |

20.04.2013 – Subject to technical modification

Part-No. 751820

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SYSTEMATIC TECHNOLOGY

## Technical data sheet • Interface Technology

Ripple <5 mV<sub>eff</sub>

### General

|                                     |                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------|
| Nominal voltage                     | AC/DC 24 V, 4 mA–20 mA                                                                             |
| Nominal voltage                     | AC/DC 24 V                                                                                         |
| Operation voltage range             | DC: 16.8–30 V; AC: 19.2–28.8 V                                                                     |
| Rated current                       | 8.0 mA                                                                                             |
| Status Indication                   | LED yellow, blinks for wire break and output goes to a saturated state                             |
| Input/output protection             | Overvoltage AC/DC 30 V, Output short circuit-proof                                                 |
| Accuracy                            | 0.3 % FSR                                                                                          |
| Linearity error                     | 0.1 % FSR                                                                                          |
| Rise time (10 - 90%)                | 30 ms                                                                                              |
| Build-up time (Accuracy 1%)         | 60 ms                                                                                              |
| Error coefficient of measuring line | 0.1 K + 0.1 %/Ω                                                                                    |
| Temperature coefficient             | 150 ppm / K FSR                                                                                    |
| Insulation voltage input/output     | 1.5 kV <sub>eff</sub>                                                                              |
| Housing material                    | PPE                                                                                                |
| Field installation                  | rail TS 35 (EN 50022)                                                                              |
| Protection class                    | IP 20                                                                                              |
| Installation position               | Optional                                                                                           |
| Termination                         | Spring terminal 0.14–2.5 mm <sup>2</sup>                                                           |
| Operation temperature range         | -25 °C – 60 °C                                                                                     |
| Storage temperature range           | -40 °C – 85 °C                                                                                     |
| Dimensions (w × h × d)              | 6.2×90.0×92.5 mm                                                                                   |
| Weight (kg/piece)                   | 0.040 kg/piece                                                                                     |
| Approvals                           | cULus                                                                                              |
| Standards                           | EN 60721-3-3, EN 55011, EN 61000-4-2/6, EN 50178, contamination level 2, Over voltage category III |
| PU                                  | 1                                                                                                  |

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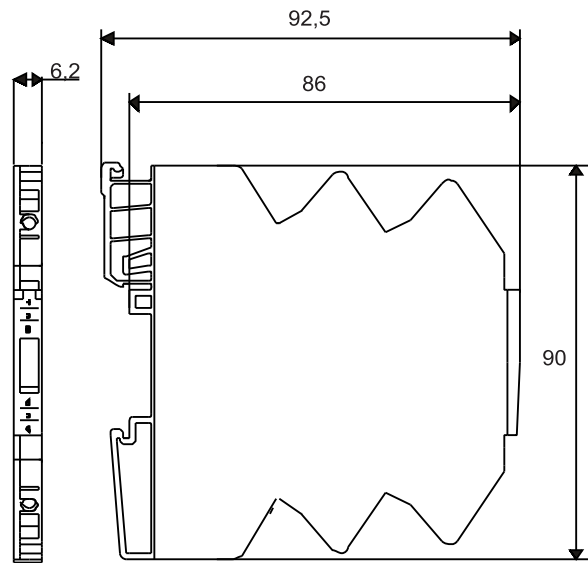
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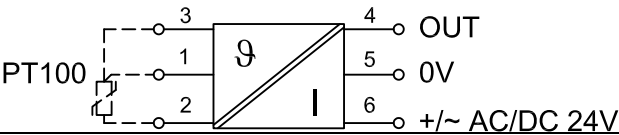


SYSTEMATIC TECHNOLOGY

Dimensions



PIN assignment



Accessories

| Accessories                                                       | Colour | Article number | Type      | PU  |
|-------------------------------------------------------------------|--------|----------------|-----------|-----|
| Marker holder 4 x 11 mm                                           | white  | 681313         | BZT 0411  | 100 |
| Isolation plate                                                   |        | 760809         | TP 7-0809 | 5   |
| Labels for laser printer A4 unpunched                             |        | 681031         | LEB-A4    | 1   |
| Labels for laser printer 4.23 x 11 mm<br>(Sheet with 1056 labels) |        | 681034         | LEB 0411  | 1   |

Accessories

| Accessories    | Colour | 2-pole | 3-pole | 4-pole | 8-pole | 16-pole | PU |
|----------------|--------|--------|--------|--------|--------|---------|----|
| Jumper comb 6A | red    | 762802 | 762805 | 762812 | 762822 | 762832  | 10 |
| Jumper comb 6A | white  | 762803 | 762806 | 762813 | 762823 | 762833  | 10 |
| Jumper comb 6A | blue   | 762804 | 762807 | 762814 | 762824 | 762834  | 10 |

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