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|----------|---------------|-----------|---------------|
| EAN code | | | |
| TC-0: | 8595188110075 | TZ-0: | 8595188140591 |
| TC-3: | 8595188110617 | TZ-3: | 8595188110600 |
| TC-6: | 8595188110082 | TZ-6: | 8595188110594 |
| TC-12: | 8595188110099 | TZ-12: | 8595188110587 |
| | | Pt100-3: | 8595188136136 |
| | | Pt100-6: | 8595188136143 |
| | | Pt100-12: | 8595188136150 |

| Technical parameters | TC | TZ | Pt100 |
|------------------------|---|---|---|
| Range: | -20 °C to +80 °C (-4 °F to 176 °F) | -40 °C to +125 °C (-40 °F to 257 °F) | -30 °C to +200 °C (-22 °F to 392 °F) |
| Scanning element: | NTC 12K | NTC 12K | Pt100 |
| Tolerance: | ±(0.15°C + 0.002[t]) | ±(0.15°C + 0.002[t]) | ±(0.3°C + 0.005[t]) |
| In air/in water: | (τ0.5) ≤ 18 s | (τ65) 62 s/8 s | (τ0.5) - /7 s |
| In air/in water: | (τ0.9) ≤ 48 s | (τ95) 216 s/23 s | (τ0.9) - /19 s |
| Cable material: | PVC unshielded, 2 x 0.25 mm ² | PVC | shielded silicone 2 x 0.22 mm ² |
| Terminal material: | polyamide | stainless steel | Copper |
| Protection degree: | IP67 | IP67 | IP67 |
| Electrical strength: | 2500 VAC | 2500 VAC | 2500 VAC |
| Insulation resistance: | > 200 MΩ at 500 VDC | > 200 MΩ at 500 VDC | > 200 MΩ at 500 VDC |

| Types of temperature sensors | | | |
|------------------------------|--------|--------|----------|
| | TC-0 | TZ-0 | - |
| Length: | 100 mm | 110 mm | - |
| Weight: | 5 g | 4.5 g | - |
| | TC-3 | TZ-3 | Pt100-3 |
| Length: | 3 m | 3 m | 3 m |
| Weight: | 70 g | 106 g | 68 g |
| | TC-6 | TZ-6 | Pt100-6 |
| Length: | 6 m | 6 m | 6 m |
| Weight: | 130 g | 216 g | 149 g |
| | TC-12 | TZ-12 | Pt100-12 |
| Length: | 12 m | 12 m | 12 m |
| Weight: | 250 g | 418 g | 249 g |

τ65 (95): time, which sensor needs to heat up on 65 (95) % of ambient temperature of environment, in which is located.

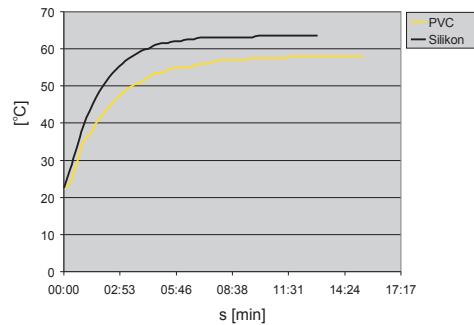
- Thermister temperature sensors are made of Negative Temperature Coefficient (NTC) embedded in a PVC or metal sleeve with a thermally-conductive sealer.
- **Sensor TC**
 - lead-in cable to sensor TC is made of wire CYSY 2D x 0.5 mm/0.02".
- **Sensor TZ**
 - cable VO3SS-F 2D x 0.5 mm/0.02" with silicone insulation for use in high temperature applications
 - silicone insulation for use in high temperature applications.
- **Sensor Pt100**
 - shielded silicon 2x 0.22 mm² (AWG 21), shielding connected with a case.
- Temperature sensors can be connected directly to the terminal block.
- Cable lengths can not be changed, connected or modified.

Resistive values of sensors in dependance on temperature

| Temperature (°C/°F) | Sensor NTC (kΩ) | Sensor Pt100 (Ω) |
|---------------------|-----------------|------------------|
| 20 /68 | 14.7 | 107.8 |
| 30 /86 | 9.8 | 111.7 |
| 40 /104 | 6.6 | 115.5 |
| 50 /122 | 4.6 | 119.4 |
| 60 /140 | 3.2 | 123.2 |
| 70 /158 | 2.3 | 127.1 |

Tolerance of sensor NTC 12 kΩ is ± 5 % by 25 °C/77 °F.
Long-term resistance stability by sensor Pt100 is 0.05 % (10 000 hours).

Diagramm of sensor warm up via air



PVC - reaction to water temperature from 22.5 °C to 58 °C (from 72.5 °F to 136.4 °F).

Silicone - reaction to water temperature from 22.5 °C to 63.5 °C (from 72.5 °F to 144.5 °F).

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