



LF1/E

Contacting Temperature Sensor with Silicone Cable and Clamping Band

Measuring size: temperature

Output: passive sensor

Highlights: contacting block aluminium, incl. clamping band



Description

The LF1/E contacting sensor with silicone cable measures the surface temperature from pipes in the range of -50 up to +180°C and is with all current sensors available. By the in scope of delivery stainless steel clamping band the aluminium block can be mounted fast and safe directly e.g. on cold and hot water pipes of heating installation.

Technical Specifications

| | |
|-------------------------|--|
| Measurement range temp. | -50...+180°C |
| Sensor | Pt100, Pt500, Pt1000, Ni1000, KTY, NTC, LM235Z (other on request) |
| Circuit type | 2-wire connection |
| Measurement current | approx. 1 mA |
| Electrical connection | stripped ends with ferrules |
| Cable | silicone cable (2x0,22 mm ² , max. +180°C) with core cable ends |
| Leakage resistance | > 100 MOhm, at +20°C (500 V DC) |
| Material | Contacting block: aluminium |
| Protection type | IP65 |
| Working temperature | -50...+180°C |
| Storage temperature | -20...+70°C |
| Installation | clamping band, band width 9 mm, chucking capacity 50-110 mm, galvanized steel (in scope of delivery) |
| Approvals | CE, EAC, RoHS |



Variants

| Article Number | |
|-------------------------------|--|
| Sensor | Cable |
| LF1/E-10/2 | |
| Pt100 (DIN EN 60751 Cl. B) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-10/3 | |
| Pt100 (DIN EN 60751 Cl. B) | 3 m silicone (2x0,22 mm ²) |
| LF1/E-10/4 | |
| Pt100 (DIN EN 60751 Cl. B) | 4 m silicone (2x0,22 mm ²) |
| LF1/E-10/5 | |
| Pt100 (DIN EN 60751 Cl. B) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-15/3 | |
| Pt500 (DIN EN 60751 Cl. B) | 3 m silicone (2x0,22 mm ²) |
| LF1/E-20/2 | |
| Pt1000 (DIN EN 60751 Cl. B) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-20/3 | |
| Pt1000 (DIN EN 60751 Cl. B) | 3 m silicone (2x0,22 mm ²) |
| LF1/E-20/4 | |
| Pt1000 (DIN EN 60751 Cl. B) | 4 m silicone (2x0,22 mm ²) |
| LF1/E-20/5 | |
| Pt1000 (DIN EN 60751 Cl. B) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-30/2 | |
| Ni1000 (whirl-sintered) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-30/5 | |
| Ni1000 (whirl-sintered) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-40/2 | |
| Ni1000TK5000 (whirl-sintered) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-40/5 | |
| Ni1000TK5000 (whirl-sintered) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-60/2 | |
| LM235Z (±1%) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-60/5 | |
| LM235Z (±1%) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-70/2 | |
| NTC20k (±1%) | 2 m silicone (2x0,22 mm ²) |



| Article Number | |
|-----------------------------|--|
| Sensor | Cable |
| LF1/E-70/5 | |
| NTC20k (±1%) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-80/2 | |
| NTC10k (±1%) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-80/5 | |
| NTC10k (±1%) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-81/2 | |
| KTY 81-110 (±1%) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-81/5 | |
| KTY 81-110 (±1%) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-82/2 | |
| KTY 81-121 (±1%) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-82/5 | |
| KTY 81-121 (±1%) | 5 m silicone (2x0,22 mm ²) |
| LF1/E-83/2 | |
| KTY 81-210 (KTY 10-6) (±1%) | 2 m silicone (2x0,22 mm ²) |
| LF1/E-83/5 | |
| KTY 81-210 (KTY 10-6) (±1%) | 5 m silicone (2x0,22 mm ²) |

Accessories



DT/G
Digital display



SZ/E
Accessories



MUD/E
Pt100 temperature transformer 0-10 V / 4-20 mA with double-PG housing



Dimensional Drawing

