

DLF02

Pressure Transmitter

thermokon[®]
HOME OF SENSOR TECHNOLOGY

Datasheet

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» APPLICATION

For pressure detection in liquid mediums for air conditioning, heating and water application. Also suitable for plants with refrigerant.

» TYPES AVAILABLE

| | ¼ inch connection | ½ inch connection |
|--|--------------------------|--------------------------|
| Pressure transmitter – active 0..10 V | DLF02<range> V HS G1/4" | DLF02<range> V HS G1/2" |
| Pressure transmitter – active 0..10 V | DLF02<range> V M12 G1/4" | DLF02<range> V M12 G1/2" |
| Pressure transmitter – active 4..20 mA | DLF02<range> A HS G1/4" | DLF02<range> A HS G1/2" |
| Pressure transmitter – active 4..20 mA | DLF02<range> A M12 G1/4" | DLF02<range> A M12 G1/2" |

<range> measuring ranges: 0..4 (0..58) | 6 (87) | 10 (145) | 16 bar (232 psi) | 25 bar (362)...other measuring ranges please request

» SECURITY ADVICE – CAUTION

The installation and assembly of electrical equipment should only be performed by authorized personnel.



The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

» NOTES ON DISPOSAL



The crossed-out wheellie bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: www.thermokon.com

» PRODUCT TESTING AND CERTIFICATION



Declaration of conformity

The declaration of conformity of the products can be found on our website.

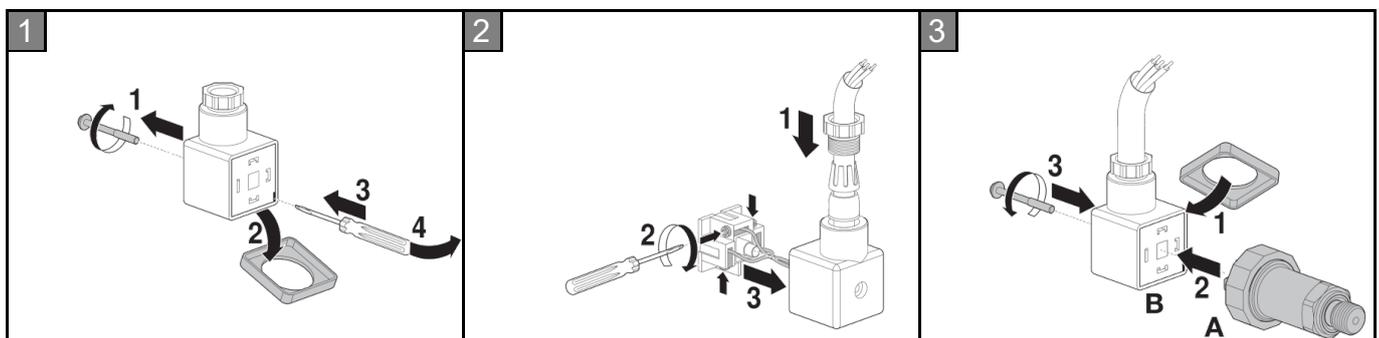
<https://www.thermokon.de/direct/en-gb/categories/dlf02>

» **TECHNICAL DATA**

| | | |
|---|--|--|
| Measuring values | pressure | |
| Medium | fluids, air or other non-flammable/non-aggressive gases | |
| Output voltage | 0..10 V, min. load >10 kΩ | |
| Output amp | 4..20 mA, max. load 650 Ω | |
| Power supply | V 24 V = (±10%) or 24 V ~ (±10%) SELV | A 24 V = |
| Power supply when using with UD-x Display | V 24 V = SELV | A 24 V = SELV |
| Power consumption | V typ. 0,15 W (24 V =) 0,3 VA (24 V ~) | A typ. 0,5 W (24 V =) |
| Medium temp. range | -30..+80 °C | |
| Measuring range pressure | depending on device | |
| Accuracy pressure | ±0,5% of measuring range (IEC 61298-2) | |
| Max. working overpressure | 2-fold nominal pressure | |
| Enclosure | stainless steel V2A (316L) | |
| Media-contacting materials | Housing: Stainless steel V2A (316L) Seal: FKM (DIN ISO 1629 / ASTM D 1418) | |
| Protection | IP65 according to IEC 60529 | |
| Cable entry | HS compression fitting for cable max. Ø=5 mm (5 x 0,12 mm ²) | |
| Connection electrical | HS MVS connector according to EN175301-803 | M12 M12 connector according to IEC 61076-2-101 |
| Connection mechanical | G 1/4", G 1/2" | |
| Ambient condition | -30..+80 °C | |
| Notes | other measuring ranges please request, adaptor to 1/2" available | |

» **MOUNTING ADVICES**

- For connection the device the device, all process lines must be depressurised.
- The device has to be secured against pressure surges by appropriate measures.
- Consider the suitability of the device for the medium to be measured
- Consider maximum pressure
- For screwing use only the spanner flat of the stainless steel body. Never turn the sensor on the plastic ring.



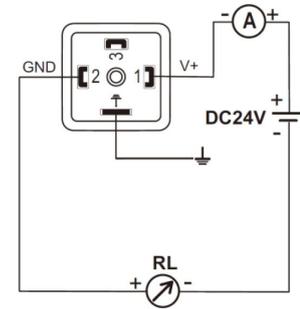
» CONNECTION PLAN

DLF02 HS

| V – active 0..10 V | |
|--------------------|-----------------|
| 1 | 24 V = / 24 V ~ |
| 2 | GND |
| 3 | Out 0..10 V |

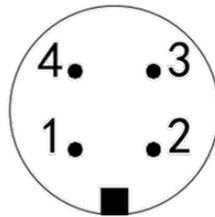


| A – active 4..20 mA | |
|---------------------|------------------|
| 1 | 24 V = |
| 2 | GND Out 4..20 mA |
| 3 | - |



DLF02 M12

| V – active 0..10 V | |
|--------------------|-----------------|
| 1 | 24 V = / 24 V ~ |
| 2 | Out 0..10 V |
| 3 | GND |
| 4 | - |



| A – active 4..20 mA | |
|---------------------|------------------|
| 1 | 24 V = |
| 2 | - |
| 3 | GND Out 4..20 mA |
| 4 | - |

» COMMISSIONING

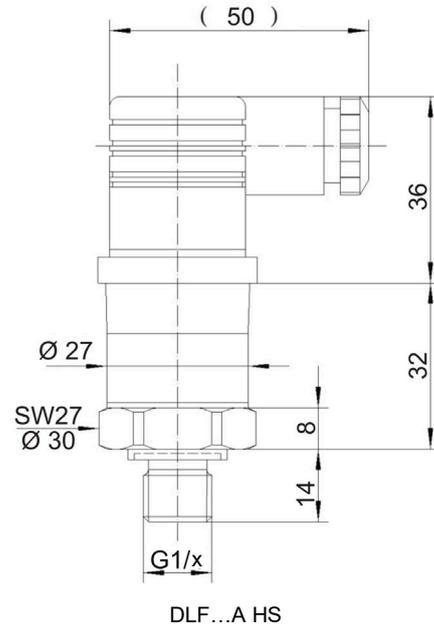
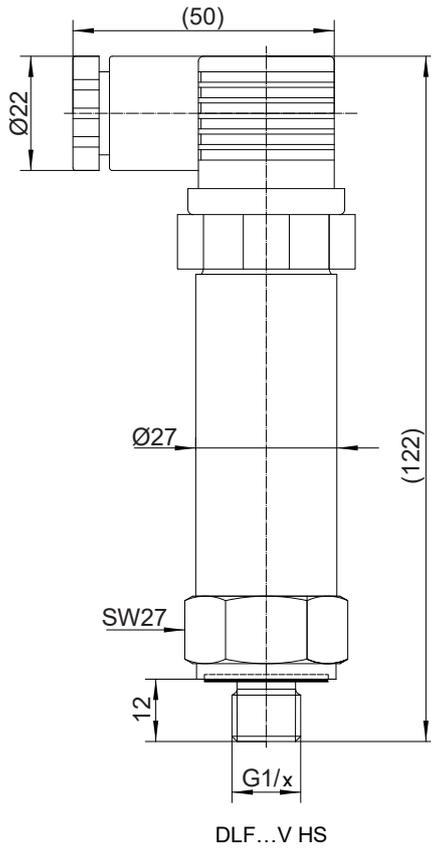
Pressure peaks are to be damped by design measures (capillary).

Prerequisite for commissioning is the proper installation of all electrical supply, control and sensing leads as well as the pressure connection lines.

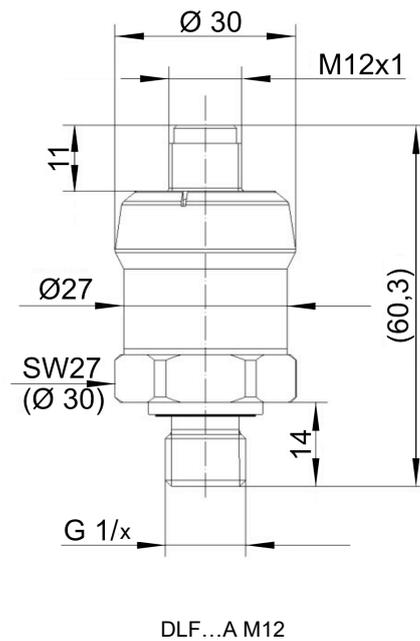
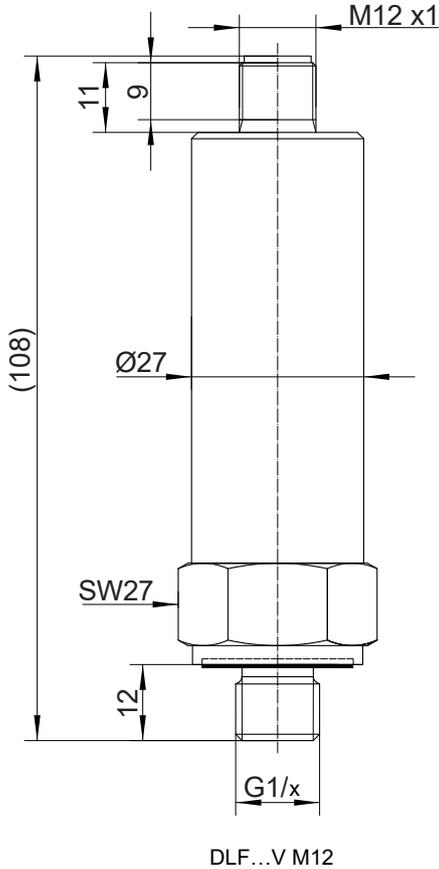
Check the tightness of the connection lines before commissioning.

» DIMENSIONS (MM)

DLF02 HS



DLF02 M12



» ACCESSORIES (OPTIONAL)

| | |
|--------------------------------------|------------------|
| Connection cable HS 2m | Item-No.: 809047 |
| Connection cable HS 5m | Item-No.: 668309 |
| Connection cable HS 10m | Item-No.: 840590 |
| Connection cable M12 2m | Item-No.: 840606 |
| Connection cable M12 5 m | Item-No.: 840613 |
| Connection cable M12 10 m | Item-No.: 840620 |
| | |
| Mounting bracket for DLF02/DPL02 | Item-No.: 841375 |
| | |
| Display UD-V (for HS 0..10V device) | Item-No.: 775113 |
| Display UD-A (for HS 4..20mA device) | Item-No.: 718189 |