

## FEATURES

- Compact size,easy to install
- High stability and low drift
- A variety of structures are optional
- Can be applied in industrial occasion



## DESCRIPTION

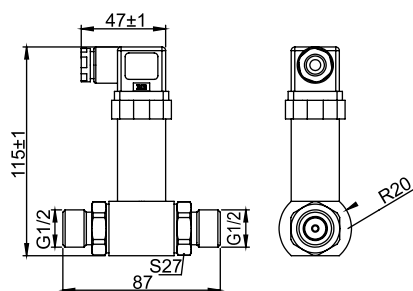
LFT2050 differential pressure transmitter adopt silicon piezoresistive differential pressure sensor as the core component, output standard industrial signals through temperature compensation, digital circuit correction and signal conditioning. The shell adopts an all-stainless steel structure with strong corrosion resistance. The product has the features of advanced design, perfect technology, sophisticated equipment, stable and reliable, and is widely applied in industrial process control, flow measurement, medical instruments, aerodynamic measurement, hydraulic, pneumatic equipment and other fields

## SPECIFICATION

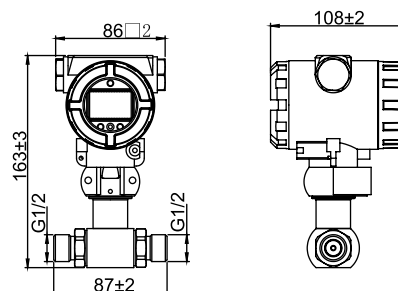
|                                                            |                                                                                                                                     |          |          |              |          |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------|----------|
| Measurement Range                                          | 0~10kPa ...3.5MPa                                                                                                                   |          |          |              |          |
| Overload Pressure                                          | 1 .5 times of the rated pressure                                                                                                    |          |          |              |          |
| Accuracy <sup>®</sup>                                      | ±0.5%F.S(0~10kPa...3.5MPa)                                                                                                          |          |          |              |          |
|                                                            | ±0.25%F.S(0~100kPa...3.5MPa)                                                                                                        |          |          |              |          |
| Stability                                                  | <0.5%F.S/year                                                                                                                       |          |          |              |          |
| Working Temp                                               | -10~60℃                                                                                                                             |          |          |              |          |
| Storage Temp                                               | -40~100℃                                                                                                                            |          |          |              |          |
| Measured Medium                                            | Gas or liquid compatible with 304 and 316L stainless steel, Fluorine rubber or Nitrile rubbe                                        |          |          |              |          |
| Dif ferential Pressure Transmitter                         |                                                                                                                                     |          |          |              |          |
| Electrical Properties                                      | 2-wired                                                                                                                             | 3-wired  |          |              | 4-wired  |
| Output Signal                                              | 4~20mA                                                                                                                              | 0~10V    | 0~5V     | 0.5~4.5V     | RS485    |
| Power Supply                                               | 8~36VDC                                                                                                                             | 12~36VDC | 8~36VDC  | 4.75~5.25VDC | 10~30VDC |
| Electrical Connection                                      | DIN43650A (Big Hirschmann), M12 waterproof outlet, GX12 aviation connector (three-core/four-core), M12 four-core aviation connector |          |          |              |          |
| Explosion-proof Digital Dif ferential Pressure Transmitter |                                                                                                                                     |          |          |              |          |
| Electrical Properties                                      | 2-wired                                                                                                                             |          | 3-wired  |              | 4-wired  |
| Output Signal                                              | 4~20mA                                                                                                                              |          | 0~10V    |              | RS485    |
| Power Supply                                               | 10~36VDC                                                                                                                            |          | 12~36VDC |              | 10~36VDC |
| Electrical Connection                                      | M20 waterproof outlet                                                                                                               |          |          |              |          |
| Pressure Connection                                        | G1/4、NPT1/4、R1/4、G1/2、7/16-20UNF、M20*1.5、M10*1、M14*1.5 etc.                                                                         |          |          |              |          |
| Pressure Form                                              | D(Dif ferential pressure)                                                                                                           |          |          |              |          |
| Enclosure Protection                                       | IP54(GX12aviationconnector)、IP65(DIN43650A,M12 waterproof outlet, M20 waterproof outlet,M12 four-core aviation connector)           |          |          |              |          |
| Certification                                              | EU electrical safety standards CE,ROHS                                                                                              |          |          |              |          |

①Measured at 25℃, including the comprehensive accuracy of linearity, repeatability and hysteresis.

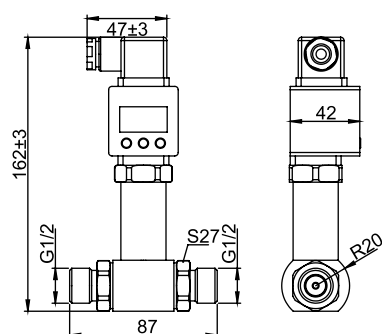
## DIMENSION(mm)



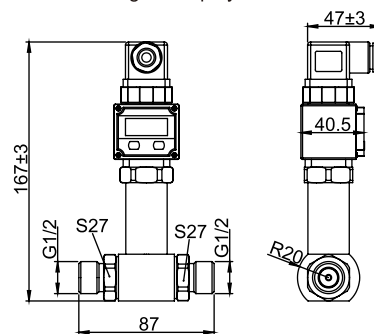
Hirschmann Connector



Explosion-proof  
Digital Display Model4



Digital Display Model-RS485



Digital Display Model-Current, Voltage

## ORDER REF NO.

| Code and description |       |                  |         |                         |                 |                                                      |          |                                           |        | Remark            |                       |                     |
|----------------------|-------|------------------|---------|-------------------------|-----------------|------------------------------------------------------|----------|-------------------------------------------|--------|-------------------|-----------------------|---------------------|
| LFT2050              |       |                  |         |                         |                 |                                                      |          |                                           |        | Model             |                       |                     |
|                      | Range | 0~10kPa...3.5MPa |         |                         |                 |                                                      |          |                                           |        | Measurement Range |                       |                     |
|                      |       | K                | K = kPa |                         |                 |                                                      |          | P                                         | P= psi |                   | MeasurementUnit       |                     |
|                      |       | B                | B= Bar  |                         |                 |                                                      |          | M                                         | M=Mpa  |                   |                       |                     |
|                      |       |                  | A4      | A4 = 4~20mA(2-wired)    |                 |                                                      |          |                                           |        |                   | Output Mode           |                     |
|                      |       |                  | V10     | V10 =0~10V(3-wired)     |                 |                                                      |          |                                           |        |                   |                       |                     |
|                      |       |                  | V05     | V05 = 0.5~4.5V(3-wired) |                 |                                                      |          |                                           |        |                   |                       |                     |
|                      |       |                  | Vo      | V0 = 0~5V(3-wired)      |                 |                                                      |          |                                           |        |                   |                       |                     |
|                      |       |                  | RS      | RS = RS-485(4-wired)    |                 |                                                      |          |                                           |        |                   |                       |                     |
|                      |       |                  |         | 0.25                    | 0.25 = 0.25%F.S |                                                      |          |                                           |        |                   |                       | Accuracy            |
|                      |       |                  |         | 0.5                     | 0.5=0.5%F.S     |                                                      |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         | D1              | D1= DIN43650A(Big hirschmann                         |          |                                           |        |                   | Electrical Connection |                     |
|                      |       |                  |         |                         | M               | M=M12(M12 waterproof outlet)                         |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         | C3              | C3=GX12 Three-core aviation connector                |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         | C4              | C4=GX12 Four-core aviation connector                 |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         | H               | H=M12 Four-core aviation connector                   |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         | M20             | M20waterproofoutlet(Explosion-proof digital display) |          |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         |                 | G                                                    | G1= G1/4 |                                           | M20    | M20=M20*1.5       |                       | Pressure Connection |
|                      |       |                  |         |                         |                 | G2                                                   | G= G1/2  |                                           | N      | N = NPT1/4        |                       |                     |
|                      |       |                  |         |                         |                 | R                                                    | R= R1/4  |                                           |        |                   |                       |                     |
|                      |       |                  |         |                         |                 |                                                      | N        | Without display(General type)             |        |                   |                       | DigitalDisplay Mode |
|                      |       |                  |         |                         |                 |                                                      | D1       | General type digital display <sup>®</sup> |        |                   |                       |                     |
|                      |       |                  |         |                         |                 |                                                      | D2       | Explosion-proof digital display           |        |                   |                       |                     |
|                      |       |                  |         |                         |                 |                                                      |          | 1.0                                       | 1.0=1m |                   | Cable Length          |                     |
|                      |       |                  |         |                         |                 |                                                      |          | 2.0                                       | 2.0=2m |                   |                       |                     |
|                      |       |                  |         |                         |                 |                                                      |          | 3.0                                       | 3.0=3m |                   |                       |                     |
| LFT2050              | 0-3   | B                | A4      | 0.25                    | D1              | G                                                    | N        | 1.0                                       |        |                   |                       | Selection Example   |

②: When the selected type is conventional digital display flat film pressure transmitter, the cable outlet mode is only large Hersman outlet, and the power supply voltage is all 12 ~ 30VDC.