



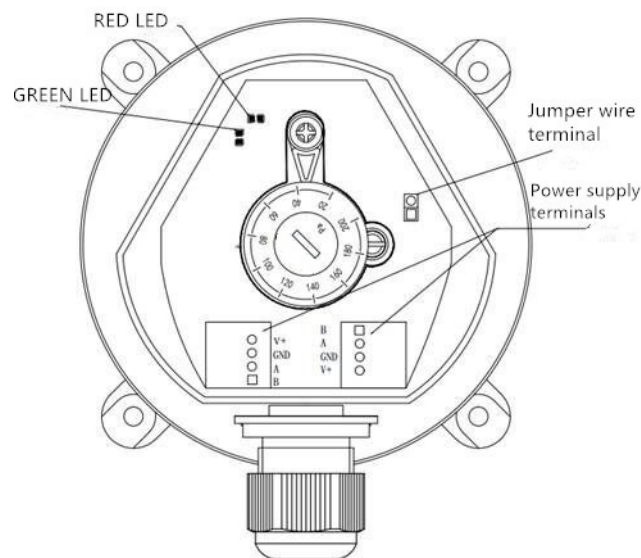
## LF32-xx-MOD Pressure switch

LF32-MOD series pressure switches are capable of sensing very small pressure changes and are widely used for air conditional control monitoring such as fan proving and dirty filter alarming. Due to its outstanding design, the set point is easy to see and adjust.

The LF32-MOD communicates the ON/OFF status of the pressure switch operation over an RS485 network, utilising the Modbus RTU protocol standard.

Other features are:

- LED indication of switch-state
- End-Of-Line termination jumper
- Spring clamp wiring terminals (screw-less)



**Red LED:**

Indicates when the pressure switch state is low

**Green LED:**

Indicates when the pressure switch state is high

**Jumper:**

RS485 End-Of-Line termination (120Ω when jumper is in place)

**Power supply terminals:**

V+	Power supply positive
GND	Power supply negative
A	Communication port +
B	Communication port –



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## Communication Protocol

The RS485 network communication protocol utilizes the Modbus RTU standard.

### Data format

Start bits: 1  
Data bits: 8  
Parity: None  
Stop bits: 1  
Baud Rate: 9600 bps

### Slave equipment ID address

The default address is 01 and may be changed in the range 1...255 through communication by commanding register 05 (F06 / Write).

Register 05 is write only.

### Pressure Switch Status Register

The ON/OFF state of the pressure switch may be read at register 01 (F01 / Coil [Binary Output]).

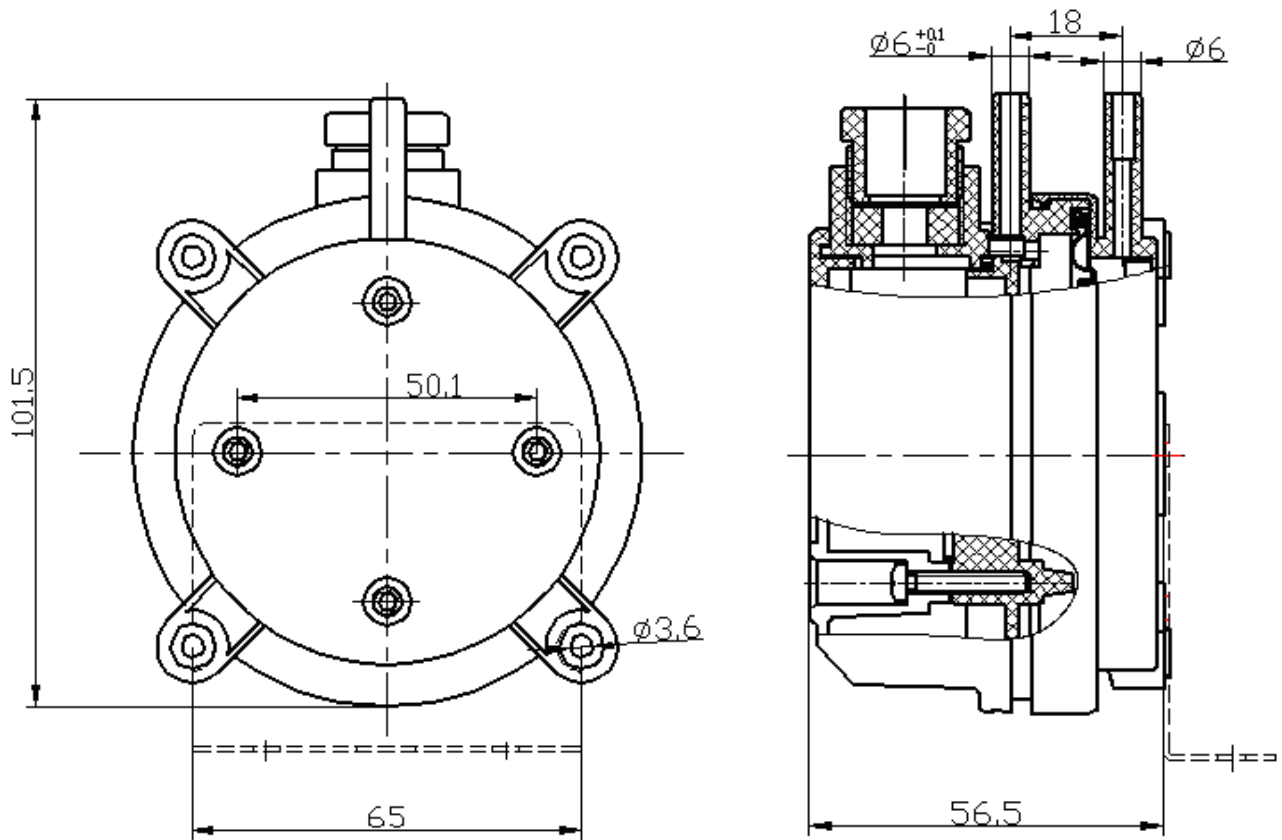
A returned value of 0 = OFF

A returned value of 1 = ON

### Error Codes

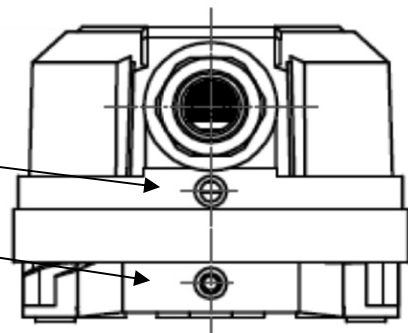
0x01	Illegal function code. Only reading the switch state (F01) or the device address (F03), and Writing the device address (F06) are supported
0x02	Error in reading the switch register address or switch address
0x03	Error in writing register address or device address
0x04	Illegal data format

## Dimensions & Accessories

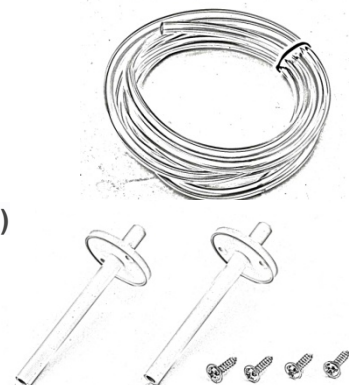


- (P2) Low pressure inlet

+ (P1) High pressure inlet



**DFK200 Accessory Kit**  
(included when 'A' order code part is present)





## Technical Data

<b>Model</b>	<p>LF32-xxA-MOD</p> <p>xx:</p> <p>02 = 20...200Pa</p> <p>03 = 30...300Pa</p> <p>05 = 50...500Pa</p> <p>10 = 100...1000Pa</p> <p>A:</p> <p>Optional. If A is included in the order code then the DFK200 accessory kit will be included (air tubes, duct nozzles &amp; mounting screws)</p>
<b>Media</b>	Air, non-combustible and non-aggressive gases
<b>Max operating pressure</b>	10kPa
<b>Mounting position</b>	Diaphragm in any vertical plane
<b>Degree of protection</b>	IP45(with cover)
<b>Operating temperature</b>	-40°C...85°C
<b>Protocol</b>	RS485, Modbus RTU
<b>Electrical Rating</b>	<p>Input voltage: DC12-24V±10%</p> <p>Power consumption: 140mW (DC20V power supply)</p>
<b>Terminals</b>	<p>Base: distance 2.54mm 4pin × 2 terminals</p> <p>Resistance: 20mΩ</p> <p>Wire gauge: 24-20AWG 1mm<sup>2</sup></p> <p>Stripping wire length: 11mm</p>
<b>Wiring</b>	For daisy-chain network & DC power wiring use Belden 9842 or equivalent (2 twisted pairs c/w foil shield and braided shield)
<b>Air Connection</b>	Φ6.0mm tube