

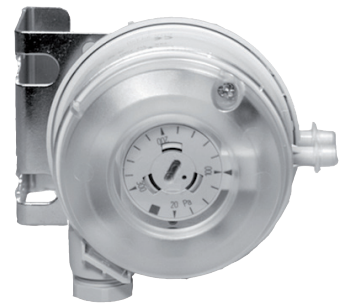
DDL: Monitor for differential pressure

How energy efficiency is improved

Precise monitoring of the air flow in an air duct (e.g. filter monitoring)

Features

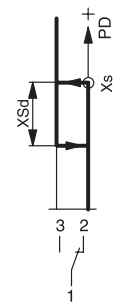
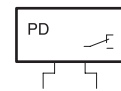
- Gold-plated contacts for 24 V~/= and 250 V~
- Easy to fit
- Integrated cord grip
- High level of setting accuracy
- Long-term stability of switching points
- Measuring element: Silicone diaphragm (does not emit gases)
- Upper switching point can be adjusted
- Setpoint can be seen from the outside
- Scope of delivery: Monitor with fixing bracket, connectors and 2 m of PVC tubing



DDL1**F001

Technical data

Power supply		
Max. load		5(0.8) A, 250 V~
Min. load		10 mA, 24 V~/=
Ambient conditions		
Max. admissible operating pressure		50 mbar
Admissible ambient temperature		-30...85 °C
Admissible media temperature		-30...85 °C
Construction		
Weight		0.1 kg
Housing material		Polycarbonate
Cable inlet		PG 11
Pressure connections		Ø 6.2 mm
Standards and directives		
Type of protection		IP54 (EN 60529)
CE conformity as per	Low-voltage directive 2014/35/EU	EN 60730-2-6



Overview of types

Type	Switching range kPa	Switching range mbar	Switching difference mbar
DDL103F001	0.02...0.3	0.2...3	Approx. 0.2
DDL105F001	0.05...0.5	0.5...5	Approx. 0.3
DDL110F001	0.1...1	1...10	Approx. 0.5
DDL120F001	0.5...2	5...20	Approx. 1
DDL150F001	1...5	10...50	Approx. 2.5

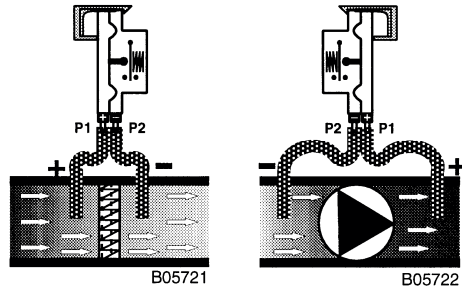
Function

If the differential pressure rises above the upper switching point (adjustable setpoint X_s), the contact switches from 1-2 to 1-3. If the pressure drops below the upper switching point by the fixed switching differential X_{sd} , the contact switches from 1-3 and 1-2.

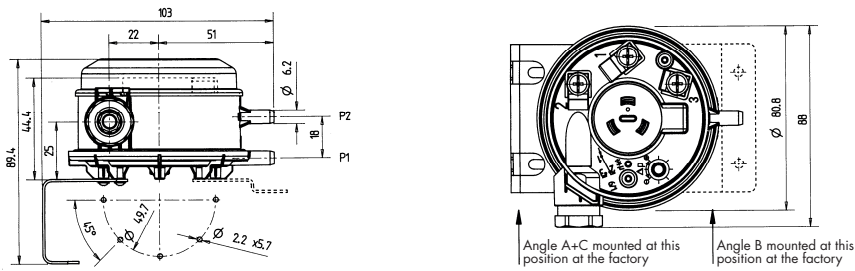
Project planning and installation instructions

In the case of filter monitoring, the connection P1 (+) in the flow direction of the volume flow upstream and the connection P2 (-) downstream of the filter are connected to the air duct. (B05721)

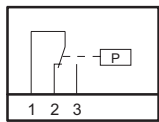
In the case of fan monitoring, the P1 (+) port is connected downstream of the fan and the P2 (-) port upstream of the fan is connected to the air duct. (B05722)



Dimension drawing



Connection diagram



A05723