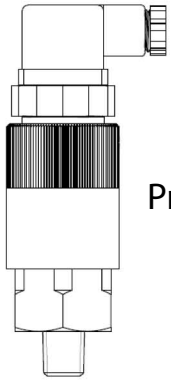

Pressure Switch P50

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Thank you for choosing Paquin!
Please read this manual carefully.

Introduction

The series switch opens or closes an electrical circuit when a certain (adjustable) pressure is reached . A diaphragm or piston is moved by the increase in pressure. The amount of diaphragm defection or piston travel depends on the force of the pressure applied and the (adjustable) spring tension . At a predetermined defection of the diaphragm or movement of the pluger, a microswitch is actuated which opens or closes the electrical contacts(changeover).

The pressure switch monitors a preset pressure.

Product usage requirements

The following general instructions are to be observed at all times to ensure the correct, safe use of the pressure switch:

Do not exceed the specified limits for e.g . pressures, forces, moments temperatures under any circumstances .

Give due consideration to the prevailing ambient conditions (temperature, atmospheric humidity, atmospheric pressure, etc .) .

Observe the applicable safety regulations laid down by the regulatory bodies in the country of use.

Observe without fail the warning notices and other instructions laid down in the operating instructions .

Never expose the pressure switch to severe side impacts or vibrations . Use the product only in its original condition . Do not carry out any unauthorized modications .

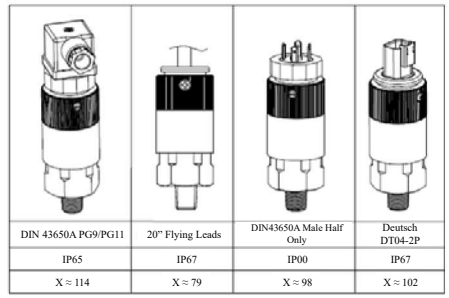
Remove all items providing protection in transit such as foils, caps or cartons .

Disposal of the above- named materials in recycling containers is permitted

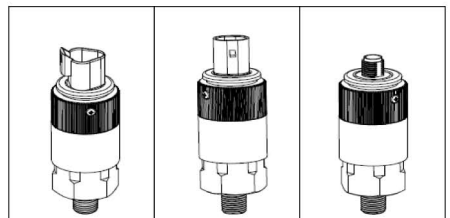
Basic Parameter

Technical Parameters	
Body material:	Stainless steel, brass
Electrical:	250 VAC / 10A, 30 VDC / 4A
Rated frequency:	DC and 50/60 Hz
Mechanical life:	10^5
Switch type :	SPDT. SPST-NO, SPST-NC
External pollution situation:	normal
Electric contacts:	Silver
Switching hysteresis:	10 bis 20% adjustable
repeatability precision:	1%
With connector according to :	EN 60730-1
Operating temperature ℃:	FKM -10℃--+120℃ NBR -30℃--+100℃ HNBR -30℃--+120℃ EPDM -50℃--+130℃
Max working pressure :	800bar
Max overpressure limit:	1000bar
Setting range:	50-200bar ; 100-300bar ; 200-500bar
Weight	~320g

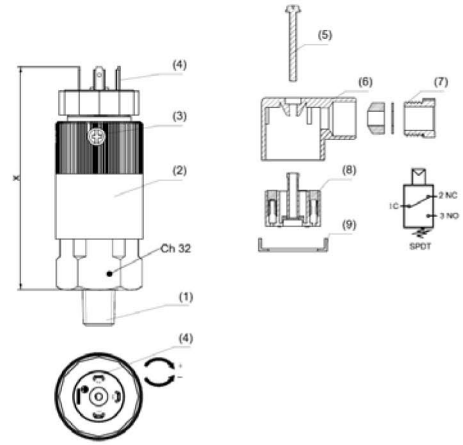
Connections and Install



DIN 43650A PG9/PG11	20" Flying Leads	DIN43650A Male Half Only	Deutsch DT04-2P
IP65	IP67	IP00	IP67
X ≈ 114	X ≈ 79	X ≈ 98	X ≈ 102



Deutsch DT04-3P (A+B)	AMP Superseal	M12 X 1 DIN61076-2-D
IP67	IP67	IP67
X ≈ 102	X ≈ 101	X ≈ 90.5



(1) Hydraulic/pneumatic connection
(2) Trip setting adjusting screw
(3) Fix screw
(4) Electrical connection
(5) Mounting screw
(6) Plug housing
(7) Pg screw coupling with seal and backup ring
(8) Terminal board
(9) Profiled seal

With a size 32 open-ended wrench (to DIN 894 or similar), install the pressure switch, by means of the hexagon connector, in the corresponding pressure socket (for torque specification, see following table) .

For sealing the system, use a standard copper gasket of the appropriate dimensions

1. Pull out the connector (5) .

2. Using a continuity tester, wire up the electrical connections 1 and 3 .

If using a testing lamp as a continuity tester, observe the maximum permissible switching capacity (see Technical Data) .

3. First , remove the fixing screw (3) as far as it will go.To adjust the pressure switch

4. Adjust the pressure switch to the desired switching pressure (a test pressure gauge required) .

Take care to ensure that the adjusting screw (2) dose not seize at any point other than when it is fully tightende down .

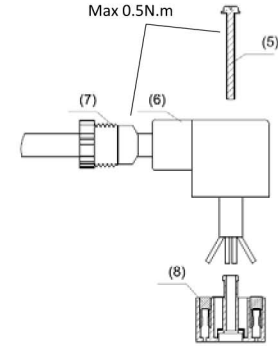
5. Ease off the adjusting screw (2) to a sufficient extent to cause the pres sure switch to trip (continuity tester reacts) .

6. If necessary, adjust the trip pressure setting by turning the adjusting screw (2) .

7. Push the connector onto the pressure switch (observe the connection diagram) .

8. Finally, lock the fixing screw(3) using the 0.5-1N.m torque

When putting the pressure switch into service, please observe the applicable safety regulations laid down by the governing bodies in the country of use.



Electrical :

1.Remove the fastening screws (5) from the head end Terminal board (8)

2.Connect the cable (max . lead cross-section 1,5 mm2) to the screw terminals provided

3. Reinstall the terminal board (8) in the plug housing (6) . Install the fastening screw (5) . Install the connector on the pressure switch and tighten the fastening screw (5) ..

Removing the Pressure Switch

When removing the pressure switch, observe the following important instructions:

The pressurized system form which the pressure switch is intended to be removed must be entirely relieved of pressure.

All the relevant safety regulations must be observed .

Remove the switch by unscrewing the hexagon adapter.

Use a size 27 open-ended wrench (to DIN 894 or similar), to remove the pressure switch .

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Thank you for using our products and reading this manual. This product can be customized according to specific performance requirements.