

MPBA & MPBF Series

Compact OEM Pressure Switch



MPBA & MPBF GENERAL INFORMATION

Technical data

Clogging indicators

Compact OEM Pressure Switch

A miniature pressure switch with high proof pressures ideal for mobile and other harsh applications. It is a well sealed design that offers ingress protection to IP68 when paired with the flying lead option. It is offered with a variety of mechanical and electrical terminations for easy integration.

Standard Features

- Silver Nickel alloy contacts
- Direct blade contact
- Diaphragm/Piston combination
- High ingress protection
- Compact body
- Gold contact available

Applications

- Industrial tools
- Garbage trucks
- Brake pressure switch

Materials

Diaphragm: standard Nitrile (optional Viton, EPDM, HNBR)
Housing: zinc plated steel (optional stainless steel)

Specification

Electrical: 100 VA - 42 VDC

Switch type: blade contact

Protection: exposed terminals - IP00 (IP68 available)

Mechanical range: 1,000,000 cycles at 1000 PSI (69 bar)

Repeatability: +/- 3% of full set point range at 68 °F (20 °C)
+/- 1.5 psi

Pressure range

Model 1: from 1.5 to 20 psi (from 0.1 to 1.4 bar)

Model 2: from 20 to 120 psi (from 1.4 to 8.2 bar)

Model 3: from 90 to 250 psi (from 6.2 to 1.7 bar)

Model 4: from 250 to 950 psi (from 17 to 54 bar)

Model 5: from 700 to 1900 psi (from 48 to 131 bar)

Model 6: from 1000 to 3000 psi (from 69 to 206 bar)

Maximum overpressure: 9000 PSI (600 bar)

Temperature range

From -20°F to +180 °F (from -29 °C to +82 °C) Nitrile

Available settings

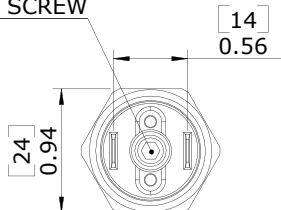
22 psi ± 10%

35 psi ± 10%

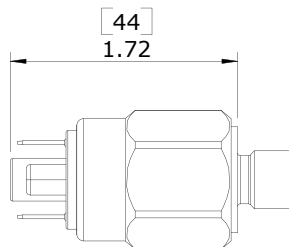
*Other Settings on request, MOQ may apply

Dimensions

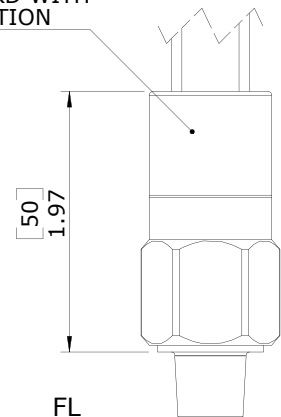
1/8" ALLEN WRENCH
ADJUSTMENT SCREW



IP68 CAP IS STANDARD WITH
FLYING LEADS OPTION



SP
1/4" Spades



FL
Flying Leads

Series

MPBA OEM integrated pressure switch

MPBF

Pressure selection

Adjustable range:

psi range

bar range

1

1.5 - 20

0.1 - 1.4

2

20 - 120

1.4 - 8.2

3

90 - 250

6.2 - 17

4

250 - 950

17 - 65

5

700 - 1900

48 - 131

6

1000 - 3000

69 - 206

Thread option

2M

1/8" NPT male

4m

1/4" NPT male

2G

1/8" BSPP male - G1/8

4G

1/4" BSPP male - G1/4

4S

7/16" - 20 SAE male with O-ring seal

6S

9/16" - 18 SAE male with O-ring seal

Circuit

A

SPST (normally open)

B

SPST (normally closed)

Electrical termination

FL

Flying Lead 18" long, 18 AWG, IP68 Cap is standard with this option

FLWF

Flying Lead Weatherpack connector, female, Tower, 10" long leads

FLWM

Flying Lead Weatherpack connector, male, Shroud, 10" long leads

FLDP

Flying Lead Deutsch connector, plug, 10" long leads

FLDR

Flying Lead Deutsch connector, receptacle, 10" long leads

SP

1/4" Spade

Options

1

FPM Diaphragm

2

EPDM Diaphragm

4

HNBR Diaphragm

7

Gold contact 0.4 VA - 30 VDC

20

Seal adjustment screw

30

Rubber Boot - Removable (Excludes IP68 Cap if selected)

Configuration example 1 :

MPBA

2

2M

B

SP

1

Configuration example 2 :

MPBF

35F

2M

B

SP

1

Set point

Direction

bar range

xxx

R

PSI Rising pressure

xxx

F

PSI Falling pressure

xxx

BR

BAR Rising pressure

xxx

BF

BAR Falling pressure

Wiring code			
Contact	Flying leads	FLWF / FLWM Weatherpack	FLDR / FLDP Deutsch receptacle / pug
Common	Black	PIN A	PIN 1
Normally closed	Black	PIN B	PIN 2
Normally open	Black	PIN B	PIN 3