Series 1 Pressure Switch

Key Features

- Field Adjustable
- High, Low, Differential & Vacuum Pressure Switch options available
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electrical Connections Available
- 11amp UL recognized micro switch standard, gold plated contacts and 5amp micro switch also available
- UL & cUL Approved
- NEMA 4, 4x, 13

How to Order

(Example: Part Number 1G 10N1.43)

1 G 10 N1 .43

Operating Specifications

Adjustment Range: See Table Below for Options
Circuit Form: SPDT
Electrical Ratings: 11A (RES/IND) - 1/4 HP @125 OR 250VAC
                  5A RES, 3A IND @ 28VDC
                  .5A RES @ 28VDC
Optional: 100mA @125VAC, .25A @ 6VDC
Pressure Connection: See Ordering Chart Adjacent
Temperature Range: -30°F to 160°F (-34°C to 71°C)
Diaphragm Material: See Ordering Chart Adjacent
Electrical Connection: See Ordering Chart Adjacent
Multi-Conductor: UL 22464, CSA TI 18AWG PVC insulated per UL
Cycle Life: Model 1A, 1C, 1G, 1Z 1H for moderate to low cycling, Model 1P for high cycling applications

Wiring Diagram

DIN43650

18" Free leads
BLUE = N.O.
RED = N.C.
BROWN = COM
GREEN = GRD

Model  Range ID Number  Switch Adjustment Range  Dead Band Approx.  Max System  Proof Test
          psi bar   psi bar   psi bar   psi bar
1A .01  2 - 15  0.138 - 1.03  0.2 - 2  0.014 - 0.138  500  34.5  1000  68.9
.03  5 - 75  0.34 - 5.17  0.5 - 6  0.034 - 0.414  750  51.7  1000  68.9
.43  15 - 200  1.03 - 13.79  2 - 15  0.138 - 1.03  1000  68.9  1250  86.2
.53  50 - 450  3.45 - 31.03  5 - 30  0.345 - 2.07  1500  103.4  3000  206.8
.62  50 - 1000  3.45 - 68.95  10 - 50  0.69 - 3.45  2000  137.9  5000  344.7
.63  100 - 1750  6.89 - 120.66  15 - 100  1.03 - 6.89  3000  206.8  5000  344.7
.64  200 - 2500  13.79 - 172.37  20 - 150  1.38 - 10.34  3000  206.8  5000  344.7
.71  100 - 1800  6.89 - 124.11  25 - 125  1.72 - 8.62  5000  344.7  10000  689.5
.72  200 - 2500  13.79 - 172.37  30 - 150  2.07 - 10.34  5000  344.7  10000  689.5
.73  350 - 3250  24.13 - 224.09  50 - 350  3.45 - 24.13  7500  517.1  10000  689.5
.74  350 - 4250  27.58 - 310.27  80 - 350  5.52 - 24.13  7500  517.1  10000  689.5
.83  400 - 4000  27.58 - 275.79  75 - 450  5.17 - 31.03  5000  344.7  10000  689.5
.84  500 - 5000  34.47 - 344.74  75 - 500  5.17 - 34.47  7500  517.1  10000  689.5
1P .83  400 - 4000  27.58 - 275.79  75 - 450  5.17 - 31.03  5000  344.7  10000  689.5
.84  500 - 5000  34.47 - 344.74  75 - 500  5.17 - 34.47  7500  517.1  10000  689.5
1H .83  400 - 4000  27.58 - 275.79  75 - 450  5.17 - 31.03  5000  344.7  10000  689.5
.84  500 - 5000  34.47 - 344.74  75 - 500  5.17 - 34.47  7500  517.1  10000  689.5
Series 1 Pressure Switch

Low Pressure Switch

<table>
<thead>
<tr>
<th>Part Number</th>
<th>1G10N1.12</th>
<th>1G10N1.14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adj. Range</td>
<td>0.36 - 3.61 psi</td>
<td>2 - 16 psi</td>
</tr>
<tr>
<td></td>
<td>(10” - 100” WC)</td>
<td>(55” - 443” WC)</td>
</tr>
<tr>
<td>Deadband</td>
<td>0.018 - 0.108 psi</td>
<td>0.072 - 0.25 psi</td>
</tr>
<tr>
<td></td>
<td>(0.5” - 3” WC)</td>
<td>(2” - 7” WC)</td>
</tr>
<tr>
<td>Proof Test</td>
<td>250 psi</td>
<td>250 psi</td>
</tr>
</tbody>
</table>

Terminal Strip

| Part Number | 1X42XX,XX |

Anodized aluminum terminal strip is for wiring a 1/2-14 FNPT conduit fitting. This option is available for any pressure ranges including the differential, vacuum, and high pressure switches.

Dimensional Specifications

How to Order

(Example: Part Number 1G10N1.43)

1   G   10   N1 . 43

Range
01  2 - 15 psi
03  5 - 75 psi
43  15 - 200 psi
53  50 - 450 psi
62  50 - 1000 psi
63  100 - 1750 psi
71* 100 - 1800 psi
72  200 - 2500 psi
73  350 - 3250 psi
74* 350 - 4250 psi
83** 400 - 4000 psi
84** 500 - 5000 psi

Diaphragm
N1  Nitrile Polyamide
F1  Viton Polyamide
F2  Viton Stainless Steel
F6** Viton Polyamide
N9* Nitrile SST Piston Teflon

Electrical Connection
10  18” Free leads
11  DIN 43650/IP65
42  Terminal Strip for Wiring

Pressure Connection
A  AL  1/2”-14 NPT
C  316SS 1/4”-18 NPT
D  AL  1/4”-18 NPT
G  AL  1/4”-18 NPT
H* 316SS 1/4”-18 NPT
P  AL  1/4”-18 NPT
Z  316SS 1/2”-14 NPT

Options:
(Example: Part Number 1G10N1.43.5)
.5  5A Micro Switch
*  Available only for model 1P (Piston Pressure Switch)
** Available only for model 1H (S.S. Piston Pressure Switch)
Series 1 Pressure Switch

Differential Pressure Switch

<table>
<thead>
<tr>
<th>Part Number</th>
<th>1DXXF1.02</th>
<th>1DXXF1.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adj. Range</td>
<td>2 - 20 psi</td>
<td>5 - 95 psi</td>
</tr>
<tr>
<td>Max System</td>
<td>400 psi</td>
<td>400 psi</td>
</tr>
<tr>
<td>Proof Hi/Lo</td>
<td>1000 psi</td>
<td>1000 psi</td>
</tr>
<tr>
<td>Proof Lo/Hi</td>
<td>1000 psi</td>
<td>1000 psi</td>
</tr>
<tr>
<td>Pressure Port</td>
<td>AL 1/4-18 FNPT</td>
<td>AL 1/4-18 FNPT</td>
</tr>
</tbody>
</table>

**Also available in 316SS 1/4-18 FNPT process fittings (P/N: 1DCXXX.XX)**

Vacuum Switch

<table>
<thead>
<tr>
<th>Part Number</th>
<th>1VXXN9.91</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum Range</td>
<td>1 - 28 inHg</td>
</tr>
<tr>
<td>Deadband</td>
<td>0.75- 1.50 inHg</td>
</tr>
<tr>
<td>Proof Test</td>
<td>300 psi</td>
</tr>
<tr>
<td>Pressure Port</td>
<td>AL 1/8-27 FNPT</td>
</tr>
</tbody>
</table>

Electrical Connection

10 - 18” Free leads 11 - DIN 43650/IP65

Operating Specifications

- Field Adjustable
- High, Low, Differential & Vacuum Pressure Switch options available
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electrical Connections Available
- 11amp UL recognized micro switch standard, gold plated contacts and 5amp micro switch also available
- UL & cUL Approved
- NEMA 4, 4x, 13
Series 2 Pressure Switch

Key Features

- Field Adjustable
- Compact Design
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electric Connections Available
- 11amp UL recognized micro switch standard, gold plated contacts and 5amp micro switch also available
- UL & cUL Approved
- NEMA 4, 4x, 13

Operating Specifications

Adjustment Range

Circuit Form

11A (RES/IND) - 1/4 HP @ 125 OR 250VAC
5A RES, 3A IND @ 28VDC
.5A RES @ 28VDC

Pressure Connection

Optional: 100mA @ 125VAC, 0.25A @ 6VDC

Temperature Range

-30°F to 160°F (-34°C to 71°C)

Diaphragm Material

See Ordering Chart Adjacent for Options

Electrical Connection

Model 2A, 2C, 2G, 2Z for moderate to low cycling
Model 2P for high cycling applications

Model 2P

Options:

- Available only for model 2P (Piston Pressure Switch)

How to Order

(Example: Part Number 2G11N1.63)

Range

01 2 - 20 psi
03 5 - 95 psi
43 15 - 200 psi
53 50 - 450 psi
62 50 - 1000 psi
63 100 - 1800 psi
71* 100 - 1800 psi
72* 200 - 2500 psi
73* 350 - 3250 psi
74* 400 - 4500 psi

Diaphragm Material

- N1 Nitrile Polyamide
- F1 Viton Polyamide
- F2 Viton Stainless Steel
- N9* Nitrile SST Piston Teflon

Electrical Connection

- DIN43650/IP65
- Liquid tight Connector
- MS 3102R 12S-3P (2PIN)
- MS 3102R 14S-7P (3PIN)

Pressure Connection

See Ordering Chart Adjacent for Options

Temperature Range

-30°F to 160°F (-34°C to 71°C)

Diaphragm Material

See Ordering Chart Adjacent for Options

Electrical Connection

See Ordering Chart Adjacent for Options

Multi-Conductor Cable

UL 22464, CSA T1 18AWG PVC insulated per UL 1007, secured with a nylon liquid tight connector

Cycle Life

Model 2A, 2C, 2G, 2Z for moderate to low cycling
Model 2P for high cycling applications

Wiring Diagram

DIN43650

Blue = N.O.
Red = N.C.
Brown = COM
Green = GRD

18” Free leads

23400 HWY 435 • Abita Springs, LA 70420 • Ph: (800) 259-6874 • Fax: (985) 893-0807 • sales@mepinc.com • www.pressureswitches.com
Series 6 Pressure Switch

Key Features
- Explosion Proof, Rated for Hazardous Areas
- Field Adjustable
- Low Pressure Switch Available
- All precision machined Anodized aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- 11amp UL recognized micro switch standard, gold plated contacts and 5amp micro switch also available
- UL Approved
- NEMA 4, 4x, 7, 9

How to Order
(Example: Part Number 6G12F1.03)

6   G    12    F1 . 03

<table>
<thead>
<tr>
<th>Range</th>
<th>01</th>
<th>03</th>
<th>05</th>
<th>10</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 - 15 psi</td>
<td>5 - 75 psi</td>
<td>15 - 200 psi</td>
<td>50 - 450 psi</td>
<td>50 - 1000 psi</td>
<td>100 - 1750 psi</td>
</tr>
<tr>
<td></td>
<td>100 - 450 psi</td>
<td>200 - 2500 psi</td>
<td>300 - 3250 psi</td>
<td>500 - 4000 psi</td>
<td>689.5 psi</td>
<td></td>
</tr>
</tbody>
</table>

Operating Specifications

Adjustment Range: See Table Below for Options
Circuit Form: SPDT (12), DPDT (33)
Electrical Ratings:
- 11A (RES/IND) - 1/4 HP @125/250VAC
- 5A RES @ 30VDC

Pressure Connection: See Ordering Chart Adjacent for Options
Temperature Range: -30°F to 160°F (-34°C to 71°C)
Diaphragm Material: See Ordering Chart Adjacent for Options
Electrical Connection: See Ordering Chart Adjacent for Options

Diaphragm
- N1: Nitrile Polyamide
- F1: Viton Polyamide
- F2: Viton Stainless Steel
- N9*: Nitrile SST Piston Teflon

Electrical Connection
- 12: SPDT (Silver)
- 33: DPDT (Silver)

Pressure Connection
- A: AL 1/2"-14 NPT
- C: 316SS 1/4"-18 NPT
- D: AL 1/4"-18 NPT
- G: AL 1/4"-18 NPT
- H*: 316SS 1/4"-18 NPT
- P: AL 1/4"-18 NPT
- Z: 316SS 1/2"-14 NPT

* Available only for model 6P (Piston Pressure Switch)
** Available only for model 6H (High Pressure Switch)
- Listed by: Underwriters Laboratories Inc.
  (File No. E123884) Suitable for Class 1, Groups A, B, C, D; Class II, Groups E, F, G.

Wiring Diagram

Low Pressure Switch

<table>
<thead>
<tr>
<th>Part Number</th>
<th>6G12N1.12</th>
<th>6G12N1.14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adj. Range</td>
<td>0.36 - 3.61 psi</td>
<td>2 - 16 psi</td>
</tr>
<tr>
<td></td>
<td>(10&quot; - 100&quot; WC)</td>
<td>(55&quot; - 443&quot; WC)</td>
</tr>
<tr>
<td>Deadband</td>
<td>0.027 - 0.144 psi</td>
<td>0.072 - 0.25 psi</td>
</tr>
<tr>
<td></td>
<td>(0.75&quot; - 4&quot; WC)</td>
<td>(2&quot; - 7&quot; WC)</td>
</tr>
<tr>
<td>Proof Test</td>
<td>250 psi</td>
<td>250 psi</td>
</tr>
</tbody>
</table>
Series 6 Pressure Switch

Dimensional Specifications

How to Order

(Example: Part Number 6G12F1.03)

6  G  12  F1 . 03

Range
01  2 - 15 psi
03  5 - 75 psi
43  15 - 200 psi
53  50 - 450 psi
62  50 - 1000 psi
63  100 - 1750 psi
64  200 - 2500 psi
73  350 - 3250 psi
83**  400 - 4000 psi
84**  500 - 5000 psi

Diaphragm
N1  Nitrile Polyamide
F1  Viton Polyamide
F2  Viton Stainless Steel
F6**  Viton Polyamide
N9*  Nitrile SST Piston Teflon

Electrical Connection
12  SPDT (Silver)
33  DPDT (Silver)

Pressure Connection
A  AL  1/2"-14 NPT
C  316SS 1/4"-18 NPT
D  AL  1/4"-18 NPT
G  AL  1/4"-18 NPT
H**  316SS 1/4"-18 NPT
P*  AL  1/4"-18 NPT
Z  316SS1/2"-14 NPT

*  Available only for model 6P (Piston Pressure Switch)
**  Available only for model 6H (High Pressure Switch)