

PS41 – Economical Miniature Pressure Switches

4 to 100 psi (0.28 to 7 bar)

These miniature pressure switches are designed for demanding applications where space and/or price are strong concerns. The switches utilize a piston/diaphragm design, which incorporates the high proof pressure of piston technology with the sensitivity of diaphragm designs. Switches are field adjustable via an Allen head screw that is hidden to protect against unauthorized tampering.

Specifications

| Switch | SPST; SPDT |
|------------------------|--|
| Repeatability | See Table 1 |
| Wetted Parts | |
| Diaphragm Material | Nitrile (optional EPDM, Viton® or Neoprene) |
| Fitting | Brass (optional 316 Stainless Steel) |
| Electrical Termination | DIN 43650A IP65; Terminals IP00; Flying Leads IP65; Option IP: IP66; Conduit with Flying Leads IP65 |
| Proof Pressure | 350 psi (24 bar) |
| Burst Pressure | 700 psi (48 bar) |
| Approvals | CE, UL Approved units available |
| Weight, Approximate | Brass: 0.3 lbs. (0.14 kg) |
| | |

Recommended Operating Temperature Limits

| | Options Selected | | |
|--------------------|--------------------------------|-------------------|-------------------|
| Diaphragm Material | No option, -10A, -SP or -RD | -RD or -RD and -G | -SP or -10A |
| Nitrile | 15°F to 185°F | 15°F to 250°F | 15°F to 212°F |
| | (-9°C to +85°C) | (-9°C to +121°C) | (-9°C to +100°C) |
| Viton® | 0°F to 185°F | 0°F to 250°F | 0°F to 212°F |
| | (-18°C to +85°C) | (-18°C to +121°C) | (-18°C to +100°C) |
| EPDM | -10°F to +185°F | -10°F to +250°F | -10°F to +212°F |
| | (-23°C to +85°C) | (-23°C to +121°C) | (-23°C to +100°C) |
| Neoprene | -10°F to +185°F | -10°F to +250°F | -10°F to +212°F |
| | (-23°C to +85°C) | (-23°C to +121°C) | (-23°C to +100°C) |

Note: Switches may function below the cold temperature limit but the set points and deadband will increase. Consult factory for details.

Electrical Switch Ratings

| Options Selected | AC | DC | |
|-------------------------|---------------------------|--|--|
| No option or -RD | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts | |
| -G or -RD with -G | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts | |
| -SP without -G | 10.1 amps @ 125/250 Volts | — | |
| -SP with -G | 2 amps @ 125/250 Volts | — | |



Dimensions

Flying Lead



* Adjustment screw is located under protective screw.

Ingress Protection Option (IP66) with Flying Leads Factory Set Only



DIN 43650A - Male Half Only





PRESSURE

ø1.25[°] (ø32)

Right Angle DIN (HNR)

ADJUSTMENT SCREW







Use the Bold characters from the chart below to construct a product code. Please reference Notes.



| Pressure Range Code | Pressure Range | Accuracy* | Average Deadband** |
|---------------------|--------------------------|---|------------------------------------|
| 10 | 4-8 psi (0.28-0.55 bar) | ± 0.35 psi (0.024 bar) +2% of setting | 1.50 psi (0.10 bar) +7% of setting |
| 20 | 7-30 psi (0.48-2.07 bar) | ±0.8 psi (0.055 bar) +2% of setting | 3 psi (0.21 bar) +8% of setting |
| 30 | 25-100 psi (1.7-6.9 bar) | ±2.0 psi (0.138 bar) +2% of setting | 5 psig (0.28 bar) +10% of setting |

* Accuracy and set point of units may change due to the effects of temperature.

** These numbers are for the standard microswitch. With either the -SP or -10A option, the values are typically 20% greater than those listed. With the -RD option, the values will be typically 25% less than those listed. In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.

PS41 Series / p2of2 / 07-MAY-14

RESSURE SWITCHES



PS71 – General Purpose Mini Pressure Switches

10 to 5000 psi (0.7 to 344 bar)

These versatile general purpose switches with snap action microswitches can be used in a wide range of hydraulic and pneumatic applications. Their proven piston/ diaphragm design offers outstanding accuracy over a very wide pressure range with an outstanding 6000 psi proof pressure. Their modular construction allows Gems to offer a large number of standard pressure fittings in two materials as well as numerous electrical ratings and terminations. Users can easily configure this model to meet their needs.

Specifications

| Switch | SPST; SPDT |
|------------------------|---|
| Repeatability | See Table 1 |
| Wetted Parts | |
| Diaphragm | Nitrile (optional EPDM, Viton® or Neoprene) |
| Fitting | Zinc-Plated Steel (Optional 316 SS) |
| Electrical Termination | DIN 43650A IP65; Spade Terminals IP00; Flying Leads IP65; Conduit with Flying Leads IP65; IP option IP66 |
| Proof Pressure | 6000 psi (414 bar) |
| Burst Pressure | 9000 psi (621 bar) |
| Approvals | CE, UL Approved units available |
| Weight, Approximate | 0.4 lbs. (0.15 kg) |

Recommended Operating Temperature Limits

| | Options Selected | | |
|--------------------|--|-------------------|-------------------|
| Diaphragm Material | No option, -10A, -SP or -RD -RD or -RD and -G -SP or -10A | | |
| Nitrile | 15°F to 185°F | 15°F to 250°F | 15°F to 212°F |
| | (-9°C to +85°C) | (-9°C to +121°C) | (-9°C to +100°C) |
| Viton® | 0°F to 185°F | 0°F to 250°F | 0°F to 212°F |
| | (-18°C to +85°C) | (-18°C to +121°C) | (-18°C to +100°C) |
| EPDM | -10°F to +185°F | -10°F to +250°F | -10°F to +212°F |
| | (-23°C to +85°C) | (-23°C to +121°C) | (-23°C to +100°C) |
| Neoprene | -10°F to +185°F | -10°F to +250°F | -10°F to +212°F |
| | (-23°C to +85°C) | (-23°C to +121°C) | (-23°C to +100°C) |

Note: Switches may function below the cold temperature limit but the set points and deadband will increase. Consult factory for details.

Electrical Switch Ratings

| Options Selected | AC | DC |
|-----------------------------|---------------------------|--|
| No option or -RD | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts |
| -G only or -RD with -G | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts |
| -10A only or -SP without -G | 10.1 amps @ 125/250 Volts | |
| -SP with -G | 2 amps @ 125/250 Volts | — |



Dimensions

DIN 43650A with Cable Clamp



Flying Lead





Right Angle DIN 43650A with Cable Clamp





Use the **Bold** characters from the chart below to construct a product code. Please reference Notes.



1)Pressure Range Code

Insert Pressure Range Code from Table 1, below.

2 Pressure Fitting¹

- 12L14 Zinc-Plated Steel -2MNZ = 1/8" NPTM -4MNZ=1/4" NPTM -8MNZ = 1/2" NPTM -2MGZ = 1/8" BSPM (G type) -4MGZ = 1/4" BSPM (G type) -4MSZ=7/16"-20 SAE Male -6MSZ=9/16~-18 SAE Male -M10Z = M10 x 1.0, Straight -M12Z = M12 x 1.5, Straight -M14Z=M14 x 1.5, Straight 316 Stainless Steel -2MNS = 1/8" NPTM -4MNS = 1/4" NPTM -2MGS = 1/8" BSPM (G type) -4MGS = 1/4" BSPM (G type) (3)Circuit -A=SPST/N.O.
 - -**B**=SPST/N.C. -C=SPDT

(4) Electrical Termination

-SP=Spade Terminals² -FLXX = Flying Leads³ -FLSXX = Flying Leads w/PVC Shrink Tubing³ -ELXX = 1/2" NPT Male Conduit w/Flying Leads⁴ -CABXX=18 AWG PVC Cable⁵ -H=DIN 43650A Male Half Only⁶ -HR = Right Angle DIN 43650A Male Half Only⁶ -HC = DIN 43650A 9mm Cable Clamp⁶ -HCR = Right Angle DIN 43650A 9mm Cable Clamp⁶ -HN=DIN 43650A with 1/2" Female NPT Conduit6 -HNR = Right Angle DIN 43650A with 1/2" Female NPT Conduit⁶

Table 1 — Pressure Range Codes

5 Options⁷

- -V = Viton[®] Diaphragm -E=EPDM Diaphragm
- -N = Neoprene Diaphragm
- -10A = 10A @ 125/250 VAC Max. Rating -G = Gold Contacts
- (for loads less than 12 mA @ 12 VDC) -RD = Reduced Differential
- (25% reduction typical)
- -IP=Ingress Protection⁸
- -OF = Oil Free Cleaned9
- -R=Restrictor (low damping coefficient) Brass
- -SR = Spiral Restrictor (high damping coefficient) 300 Series Stainless Steel¹⁰
- -WF=Weather Pack Connector, Female
- -WM = Weather Pack Connector, Male
- -DE=Deutsch Connector, Male, DT04 Series

(6) Fixed Set Point (optional)

- A. Specify set point -FS
 - (in PSI or BAR, see example)¹¹
 - B. Set Point Actuation **R** on Rising Pressure F on Falling Pressure
 - Example: -FS2BARF for 2 BAR Falling or -FS20PSIR for 20 PSI Rising

Notes:

- 1. Other fittings available. Consult factory.
- 2. 20% increase in deadband typical.
- 3. 18" is standard. Specify lead length in inches (max. 48"). e.g. -FL18 or -FLS30.
- 4. 18" is standard. Specify lead length in inches (max. 48"). e.g. -EL18 or -EL30.
- 5. 36" is minimum. Specify cable length in inches. e.g. -CAB36 or -CAB120.
- 6. DIN connectors require -C SPDT circuit. 7. Options -10A, -G or -RD
- cannot be combined.
- 8. Ingress Protection is available only with -FL, -FLS or -CAB Electrical Termination choices. Ingress Protection requires Fixed Set Point -FS. 9. Requires stainless steel
- housing. 10.-SR will result in wider
- deadbands and slower response time.
- 11. Set Point must be within Pressure Range selected in Step 1.

| Pressure Range Code | Pressure Range | Accuracy* | Average Deadband** |
|---------------------|---------------------------------|--|------------------------------------|
| 10 | 10-30 psi (0.7-2.1 bar) | ±1.5 psi (0.103 bar) +2% of setting | 3.5 psi (0.28 bar) +11% of setting |
| 20 | 25-75 psi (1.7-5.2 bar) | ±2.5 psi (0.172 bar) +2% of setting | 3.5 psi (0.28 bar) +11% of setting |
| 30 | 65-300 psi (4.5-20.7 bar) | ± 5.0 psi (0.345 bar) +2% of setting | 20 psig (1.38 bar) +11% of setting |
| 40 | 250-1000 psi (17.2-69.0 bar) | ±15 psi (1.03 bar) +2% of setting | 45 psig (3.10 bar) +12% of setting |
| 50 | 1000-3000 psi (69-206.8 bar) | ±30 psi (2.06 bar) +3% of setting | 70 psig (4.83 bar) +12% of setting |
| 60 | 2500-5000 psi (172.4-344.7 bar) | ±50 psi (3.45 bar) +4% of setting | 140 psi (9.65 bar) +13% of setting |

Accuracy and set point of units may change due to the effects of temperature.

These numbers are for the standard microswitch. With either the -SP or -10A option, the values are typically 20% greater than those listed. With the -RD option, the values will be typically 25% less than those listed. In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details



PS72 – General Purpose Mini Pressure Switches

- 10 to 750 psi (0.7 to 51.7 bar)
- Adjustable or Factory Set
- Minimal Set Point Change at Low Temperature Extremes

These versatile microswitch based pressure switches are designed for medium pressure OEM applications. They offer all the performance of our proven PS71 model with the low temperature capability of Kapton®.

Specifications

| Switch | SPST; SPDT |
|---|---|
| Repeatability | See Table 1 |
| Wetted Parts | |
| Housing | Zinc-Plated Steel (316L stainless steel and brass available) |
| Diaphragm | Kapton® (polyimide) |
| 0-Ring | Nitrile (other materials available) |
| Electrical Termination | DIN 43650A IP65; Spade Terminals IP00; Flying Leads IP65; Conduit with Flying Leads IP65; IP option IP66 |
| Proof Pressure | 3000 psi (207 bar) |
| Burst Pressure | 6000 psi (414 bar) |
| Approvals CE, UL Approved units available | |
| Weight, Approximate | Steel: 0.4 lbs. (0.15 kg) |
| | |

Recommended Operating Temperature Limits

| Options Selected | Temperature |
|------------------|-----------------------------------|
| -RD | -40°F to +250°F (-40°C to +121°C) |
| No Options | -40°F to +185°F (-40°C to +85°C) |
| -SP or -10A | -40°F to +212°F (-40°C to +100°C) |

Electrical Switch Ratings

| Options Selected | AC | DC |
|-----------------------------|---------------------------|--|
| No option or -RD | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts |
| -G only or -RD with -G | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts |
| -10A only or -SP without -G | 10.1 amps @ 125/250 Volts | |
| -SP with -G | 2 amps @ 125/250 Volts | _ |



Dimensions

DIN 43650A with Cable Clamp





SPDT Shown





Right Angle DIN 43650A with Cable Clamp



OPTIONAL PORT THREAD SIZES SEE ORDERING DATA





Use the **Bold** characters from the chart below to construct a product code. Please reference Notes.



Notes:

- 1. Other fittings available. Consult factory.
- 2. Requires -10A or -G option. (20% increase in deadband typical)
- 3 18" is standard. Specify lead length in inches (max. 48'). e.g. **-FL18** or **-FLS30**.
- 4 18" is standard. Specify lead length in inches (max.
- 48"). e.g. -EL18 or -EL30. 5. 36" is minimum. Specify cable length in inches. e.g.
- -CAB36 or -CAB120. 6. DIN connectors require -C SPDT circuit.
- 7. Options -10A, -G or -RD cannot be combined.
- 8. Ingress Protection is available only with -FL, -FLS or -CAB Electrical Termination choices. Ingress Protection requires Fixed Set Point -FS.
- 9. Requires stainless steel housing.
- 10. -SR will result in wider deadbands and slower response times.
- 11. Set Point must be within Pressure Range selected in Step 1.

| Pressure Range Code | Pressure Range | Accuracy | Average Deadband* |
|---------------------|-----------------------------|---|------------------------------------|
| 10 | 10-30 psi (0.7-2.1 bar) | ±1.5 psi (0.103 bar) +3% of setting | 3.5 psi (0.28 bar) +12% of setting |
| 20 | 25-75 psi (1.7-5.2 bar) | ± 2.5 psi (0.172 bar) $+3\%$ of setting | 3.5 psi (0.28 bar) +12% of setting |
| 30 | 65-300 psi (4.5-20.7 bar) | ±5.0 psi (0.345 bar) +3% of setting | 20 psig (1.38 bar) +12% of setting |
| 40 | 250-750 psi (17.2-51.7 bar) | ±15 psi (1.03 bar) +3% of setting | 45 psig (3.10 bar) +13% of setting |

* These numbers are for the standard microswitch. With either the -SP or -10A option, the values are typically 20% greater than those listed. With the -RD option, the values will be typically 25% less than those listed. In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.



PS75 – Rugged Cylindrical Pressure Switch

- Side Mounted DIN Connection
- Top Mounted Electrical Connection
- 5 to 6000 psi (0.35 to 414 bar)
- Wear Disc Design for Longer Life

Gems PS75 Series have all metal surfaces for overload stops and deliver reliable operation under extremely high pressure surges. They are designed with a wear disc and cushioning ring for increased life. The switches use a piston/diaphragm design, which combine the high proof pressure of piston technology with the sensitivity of a diaphragm design. They can be field or factory adjusted.

Specifications

| Switch | SPST; SPDT | |
|------------------------|---|--|
| Repeatability | See Table 1 | |
| Wetted Parts | | |
| Diaphragm | Nitrile (optional Viton [®] , Neoprene or EPDM) | |
| Fitting | Zinc-Plated Steel (optional 316 Stainless Steel) | |
| Housing | Brass or Zinc-Plated Steel (optional 316 Stainless Steel) | |
| Electrical Termination | DIN 43650A IP65; Conduit with Flying Leads IP65; Flying Leads IP65 | |
| Proof Pressure | 7500 psi (517 bar) except range 10: 500 psi (35 bar) | |
| Burst Pressure | 9000 psi (621 bar) | |
| Approvals | CE, UL Approved units available | |
| Weight, Approximate | Steel: 0.6 lbs. (0.27 kg) | |

Recommended Operating Temperature Limits

| | Circuit Codes | | |
|--------------------|----------------------------------|-----------------------------------|--|
| Diaphragm Material | -A, -B, -C | -A, -B, -C with -RD option | |
| Nitrile (Std) | 15°F to 185°F (-9°C to +85°C) | 15°F to 250°F (-9°C to +121°C) | |
| Viton® | 0°F to 185°F (-18°C to +85°C) | 0°F to 250°F (-18°C to +121°C) | |
| EPDM | -10°F to +185°F (-23°C to +85°C) | -10°F to +250°F (-23°C to +121°C) | |
| Neoprene | -10°F to +185°F (-23°C to +85°C) | -10°F to +250°F (-23°C to +121°C) | |

Note: Switches may function below the cold temperature limit but the set points and deadband will increase. Consult factory for details.

Electrical Switch Ratings

| Circuit Code | AC | DC | |
|-------------------------|------------------------|--|--|
| -A, -B, -C ¹ | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts | |
| -A, -B, -C ² | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts | |

Notes:

1. Without Gold Contacts Option (-G).

2. With Gold Contacts Option (-G).



Dimensions

Right Angle DIN 43650A with Cable Clamp



Flying Lead

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Use the Bold characters from the chart below to construct a product code. Please reference Notes.



Table 1 — Pressure Range Codes

For Circuit Codes -A, -B and -C

| Pressure Range Code | Pressure Range | Accuracy* | Average Deadband** |
|---------------------|-----------------------------|------------------------------------|------------------------------------|
| 10 | 5-25 psi (0.35-1.7 bar) | ±1.0 psi (0.07 bar) +2% of setting | 3 psi (0.21 bar) +5% of setting |
| 20 | 15-75 psi (1.0-5.2 bar) | ±2.5 psi (0.17 bar) +2% of setting | 5 psig (0.34 bar) +10% of setting |
| 30 | 50-150 psi (3.5-10.3 bar) | ±6 psi (0.41 bar) +2% of setting | 15 psig (1.03 bar) +13% of setting |
| 40 | 150-650 psi (10.3-44.8 bar) | ±15 psi (1.03 bar) +2% of setting | 25 psi (1.72 bar) +14% of setting |
| 50 | 500-1750 psi (34.5-121 bar) | ±25 psi (1.72 bar) +2% of setting | 55 psi (3.79 bar) +15% of setting |
| 60 | 1000-3500 psi (69-241 bar) | ±45 psi (3.10 bar) +3% of setting | 100 psi (6.89 bar) +16% of setting |
| 70 | 2500-6000 psi (172-414 bar) | ±80 psi (5.51 bar) +4% of setting | 200 psi (13.8 bar) +17% of setting |

R on Rising Pressure **F** on Falling Pressure

Example: -FS1BARF for 1 BAR Falling or -FS20PSIR for 20 PSI Rising

* Accuracy and set point of units may change due to the effects of temperature.

** In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.

Notes:

- 1. Manifold mounts available. Consult factory.
- 18" is standard. Specify lead length in inches (max. 48"). e.g. -FL18 or -FL30.
 18" is standard. Specify
- 18" is standard. Specify lead length in inches (max. 48"). e.g. -EL18 or -EL30.
- 4. DIN connectors require **-C** SPDT circuit.
- 5. Requires stainless steel pressure fitting.
- -SR will result in wider deadbands and slower response times.
- Set Point must be within Pressure Range selected in Step 1.



PS76 – Rugged Cylindrical Pressure Switch

- Side Mounted DIN Connection
- Top Mounted Electrical Connection
- 15 to 1750 psi (1 to 121 bar)
- Minimal Set Point Change at Low Temperature Extremes

These versatile microswitch based pressure switches are designed for high pressure OEM applications. They offer all the performance of our proven PS75 model with the low temperature capability of Kapton[®].

Specifications

| Switch | SPST; SPDT | |
|------------------------|---|--|
| Repeatability | See Table 1 | |
| Wetted Parts | | |
| Port Fitting | Zinc-Plated Steel (316L Stainless Steel available) | |
| Diaphragm | Kapton® (polyimide) | |
| O-Ring | Nitrile (other materials available) | |
| Electrical Termination | DIN 43650A IP65; Conduit with Flying Leads IP65; Flying Leads IP65 | |
| Proof Pressure | 4500 psi (310 bar) except Range 10: 500 psi (35 bar) | |
| Burst Pressure | 6000 psi (414 bar) | |
| Approvals | CE, UL Approved units available | |
| Weight, Approximate | Steel: 0.6 lbs. (0.27 kg) | |

Recommended Operating Temperature Limits

| | Circuit Codes | | |
|--|----------------------------------|-----------------------------------|--|
| Diaphragm Material | -A, -B, -C | -A, -B, -C with -RD option | |
| Teflon [®] Coated Kapton [®] | -40°F to +185°F (-40°C to +85°C) | -40°F to +250°F (-40°C to +121°C) | |

Electrical Switch Ratings

| Circuit Code | AC | DC | |
|-------------------------|------------------------|--|--|
| -A, -B, -C ¹ | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts | |
| -A, -B, -C ² | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts | |

Notes:

1. Without Gold Contacts Option (-G).

2. With Gold Contacts Option (-G).



Dimensions

Right Angle DIN 43650A with Cable Clamp



Flying Lead



Notes:

1. Manifold mounts available.

2. 18" is standard. Specify lead

length in inches (max. 48").

Consult factory.

e.g. -FL18 or -FL30.

3. 18" is standard. Specify lead length in inches (max.

DIN connectors require -C

SPDT circuit. 5. Requires stainless steel

pressure fitting.

response times.

Step 1.

6. -SR will result in wider

deadbands and slower

7. Set Point must be within

Pressure Range selected in

48"). e.g. -EL18 or -EL30.

How To Order

Use the Bold characters from the chart below to construct a product code. Please reference Notes.



1 Pressure Range Code

Insert Pressure Range Code from Table 1, below.

2 Pressure Fitting¹

12L14 Zinc-Plated Steel -2MNZ = 1/8" NPTM -4MNZ = 1/4" NPTM -4FNZ = 1/4" NPTF -4MGZ = 1/4" BSPM (G type) -4FGZ = 1/4" BSPF (G type) -4MSZ = 7/16"-20 SAE Male -6MSZ = 9/16"-18 SAE Male -4SSZ = 7/16"-20 SAE Male Swivel

316L Stainless Steel -4MNS=1/4" NPTM

- -4MGS = 1/4" BSPM (G type) -4FGS = 1/4" BSPF (G type)
- -6MSS=9/16⁻¹⁸ SAE Male

(3)Circuit

-**A**=SPST/N.O. -**B**=SPST/N.C. -**C**=SPDT

4 Electrical Termination

- -FLXX=Flying Leads²
- -FLSXX=Flying Leads w/PVC Shrink Tubing²
- -ELXX=1/2" NPT Male Conduit w/Flying Leads³
 - -H=DIN 43650A Male Half Only⁴
 - -HR = Right Angle DIN 43650A Male Half Only⁴
 - -HC = DIN 43650A 9mm Cable Clamp⁴
- -HCR = Right Angle DIN 43650A 9mm Cable
 - Clamp⁴
- -HN=DIN 43650A with 1/2" Female NPT Conduit⁴
- -HNR=Right Angle DIN 43650A with 1/2" Female NPT Conduit⁴

5 Options

- -G = Gold Contacts
 - (for loads less than 12 mA @ 12 VDC) -RD=Reduced Differential
 - (25% reduction typical)
 - -OF=Oil Free Cleaned⁵
 - -R=Restrictor (low damping coefficient) Brass
 - -SR=Spiral Restrictor (high damping coefficient)
 - 300 Series Stainless Steel
 - -WF=Weather Pack Connector, Female
 - -WM = Weather Pack Connector, Male
 - -DE=Deutsch Connector, Male, DT04 Series

6 Fixed Set Point (optional)

- A. Specify set point -FS
 - (in PSI or BAR, see example)7
- B. Set Point Actuation
 - R on Rising Pressure
 - F on Falling Pressure Example: -FS1BARF for 1 BAR Falling or -FS20PSIR for 20 PSI Rising
 - UI -FOZUFOIN IUI ZU FOI NISIIIY

Table 1 — Pressure Range Codes

For Circuit Codes -A, -B and -C

| Pressure Range Code | Pressure Range | Accuracy* | Average Deadband** |
|---------------------|-----------------------------|--|------------------------------------|
| 10 | 15-75 psi (1.0-5.2 bar) | ± 2.5 psi (0.17 bar) $+3\%$ of setting | 5 psig (0.34 bar) +11% of setting |
| 20 | 50-150 psi (3.5-10.3 bar) | ±6 psi (0.41 bar) +3% of setting | 15 psig (1.03 bar) +14% of setting |
| 30 | 150-650 psi (10.3-44.8 bar) | ±15 psi (1.03 bar) +3% of setting | 25 psi (1.72 bar) +15% of setting |
| 40 | 500-1750 psi (34.5-121 bar) | ±25 psi (1.72 bar) +3% of setting | 55 psi (3.79 bar) +16% of setting |

* Accuracy and set point of units may change due to the effects of temperature.

** In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.