



3a

**INDUSTRIAL PRESSURE SWITCHES
Type A**

- Heavy duty switch for virtually any industrial application involving air, water, steam or oil
- Bellows, piston and diaphragm actuated types
- Settings externally adjustable by screwdriver or accessory plastic knob
- Gasketed die cast enclosure – oil, coolant and moisture tight to IP65
- Mechanism incorporates hardened parts and short travel characteristics for long mechanical life under severe conditions
- Double break snap switch with silver contacts, single or double pole
- Fully user serviceable

| | |
|---|------------|
| Bellows Actuated Pressure Switches Type ACW | 3a2 |
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Bellows Actuated Pressure Switches

For use on Air, Oil, Water, other liquids and Gases. Ingress Protection IP65 □ (IEC 144)

Type ACW Bellows actuated pressure switches



Single pole – double throw contacts (1NO+1NC)

| Range setting | | Adjustable Differential | | Maximum allowable pressure | | Order Class 9012 Type... |
|---|----------|---|---------|----------------------------|------|------------------------------------|
| Switch can be adjusted to operate on Falling pressure within this range | | Add to range setting to obtain operating point on Rising pressure | | | | |
| Bars | PSI | Bars | PSI | Bars | PSI | |
| 0.1– 0.7 | 1–10 | 0.04– 0.3 | ½–5 | 2 | 30 | ACW-3 |
| 0.1– 1.3 | 1–20 | 0.07– 0.4 | 1–6 | 2 | 30 | ACW-4 |
| 0.1– 5.1 | 1–75 | 0.3 – 1 | 4–15 | 7 | 100 | #ACW-5 |
| 0.1– 7.5 | 1–110 | 0.5 – 2 | 7–30 | 17 | 255 | ●ACW-1 |
| 1.4– 12 | 20–180 | 0.7 – 2 | 10–30 | 17 | 255 | ●ACW-8 |
| 0.7– 18 | 10–265 | 1.1 – 1.7 | 15–25 | 20 | 300 | ACW-9 |
| 0.7– 20 | 10–300 | 1.7 – 8.6 | 25–125 | 41 | 600 | ACW-2 |
| 5.2– 34 | 75–500 | 3.5 – 8 | 50–120 | 137 | 2000 | ACW-6 |
| 10.4– 69 | 150–1000 | 5.9 –10 | 85–145 | 137 | 2000 | ACW-7 |
| 24.1–131 | 350–1900 | 11 –20 | 150–300 | 172 | 2500 | ACW-10 |

Replacement Snap Switch assembly – Class 9007 Type AO-1



Double pole – double throw contacts (2NO+2NC)

| Range setting | | Adjustable Differential | | Maximum allowable pressure | | Order Class 9012 Type... |
|---|----------|---|---------|----------------------------|------|------------------------------------|
| Switch can be adjusted to operate on Falling pressure within this range | | Add to range setting to obtain operating point on Rising pressure | | | | |
| Bars | PSI | Bars | PSI | Bars | PSI | |
| 0.1– 0.7 | 1–10 | 0.06– 0.4 | ¾–7 | 2 | 30 | ACW-23 |
| 0.1– 1.3 | 1–20 | 0.14– 0.7 | 2–10 | 2 | 30 | ACW-24 |
| 0.1– 5.1 | 1–75 | 0.5 – 1.3 | 6–20 | 7 | 100 | ACW-25 |
| 0.1– 7.5 | 1–110 | 0.9 – 2.7 | 13–40 | 17 | 255 | ACW-21 |
| 1.4– 12 | 20–180 | 1.1 – 2.7 | 15–40 | 17 | 255 | ACW-28 |
| 0.7– 17 | 10–250 | 1.6 – 2.4 | 23–35 | 20 | 300 | ACW-29 |
| 0.7– 20 | 10–300 | 2.5 –10.3 | 35–150 | 41 | 600 | ACW-22 |
| 5.2– 34 | 75–500 | 5.9 –11 | 85–160 | 137 | 2000 | ACW-26 |
| 10.4– 69 | 150–1000 | 9.3 –13 | 135–200 | 137 | 2000 | ACW-27 |
| 24.1–131 | 350–1900 | 16.6 –24 | 240–350 | 172 | 2500 | ACW-20 |

Replacement Snap Switch assembly – Class 9007 Type CO-3

Connection data

Pressure connection: G¼" to BS2779
 Conduit (Electrical) entry: Form M11 (standard), 20mm Iso metric
 Form M12, PG13.5 DIN 40430
 Note: NPT Threads available to special order

On Form H3 devices, the minimum adjustable differential is 1½ times that quoted, except on types ACW 6, 7 & 10 where minimum differential is twice the quoted figure.

Spare Parts Page 3a6
 Accessories Page 3a6
 Technical Data Pages 3a7 and 3a8
 Dimensions Page 3a9

Ordering Instructions
 State... **Class, Type and Form No.**
 (where applicable, see page 3a6)
 Eg: Class **9012** Type **ACW-3** Form **P2**

- When fitted with suitable cable gland or adequately sealed conduit entry
- # Tested to BS 6134 1981
- Registered with the Loss Prevention Council as suitable for use in sprinkler systems.