



# Pressure Switches

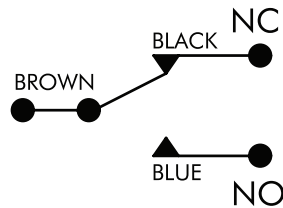
# SYNTESI®

Metal Work Syntesi pressure switches are a simple modular means to detect low or high pressure states in the system.

## Features

- Adjustable setpoint knob
- Fluid - Compressed air or other inert gases
- N.O./N.C. complementary outputs
- Body size 1 or 2
- Port sizes from 1/8" NPT to 1" NPT
- 7.5 to 145 psi set point
- 2 meter, 3-wire cable
- Max. input pressure 217 psi (188 psi for size 2)
- SPDT 5A @ 250VAC / 5A @ 30VDC resistive

## Wiring



See [www.AutomationDirect.com](http://www.AutomationDirect.com) for a wide variety of fitting options



Part No.  
**5U23S103**



Part No.  
**5U11S101**

## Metal Work Syntesi Pressure Switches

| Part No.                 | Price   | Weight (lbs) | Size | Inlet(s) (NPT)   | Outlet(s) (NPT)  | Drawing Link        | Manufacturer Specs  |
|--------------------------|---------|--------------|------|------------------|------------------|---------------------|---------------------|
| <a href="#">5U11S101</a> | \$49.50 | 0.60         | 1    | 1/8in female NPT | 1/8in female NPT | <a href="#">PDF</a> | <a href="#">PDF</a> |
| <a href="#">5U12S102</a> | \$49.50 | 0.60         |      | 1/4in female NPT | 1/4in female NPT | <a href="#">PDF</a> |                     |
| <a href="#">5U13S103</a> | \$49.50 | 0.60         |      | 3/8in female NPT | 3/8in female NPT | <a href="#">PDF</a> |                     |
| <a href="#">5U23S103</a> | \$63.00 | 1.20         | 2    |                  |                  | <a href="#">PDF</a> |                     |
| <a href="#">5U24S104</a> | \$63.00 | 1.15         |      | 1/2in female NPT | 1/2in female NPT | <a href="#">PDF</a> |                     |
| <a href="#">5U25S105</a> | \$73.00 | 1.20         |      | 3/4in female NPT | 3/4in female NPT | <a href="#">PDF</a> |                     |
| <a href="#">5U26S106</a> | \$73.00 | 1.15         |      | 1in female NPT   | 1in female NPT   | <a href="#">PDF</a> |                     |

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).



# Accessories









| Metal Work Syntesi Accessories |                                 |         |   |                            |                            |              |
|--------------------------------|---------------------------------|---------|---|----------------------------|----------------------------|--------------|
| Item Photo                     | Part No.                        | Price   | Description   | Drawing Link               | Manufacturer Specs         | Weight (lbs) |
|                                | <a href="#"><u>88257E1</u></a>  | \$3.25  | Metal Work mounting bracket, panel, plated steel. For use with Syntesi Size 1 regulators and filter-regulators.   | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|                                | <a href="#"><u>88257E2</u></a>  | \$4.25  | Metal Work mounting bracket, panel, plated steel. For use with Syntesi Size 2 regulators and filter-regulators.   | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|                                | <a href="#"><u>88257E3</u></a>  | \$11.25 | Metal Work mounting bracket, rear, plated steel. For use with Syntesi Size 1 air prep components. Mounting hardware included.   | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|                                | <a href="#"><u>88257E4</u></a>  | \$13.00 | Metal Work mounting bracket, rear, plated steel. For use with Syntesi Size 2 air prep components. Mounting hardware included.   | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.30         |
|                                | <a href="#"><u>9200718X</u></a> | \$15.50 | Metal Work DIN rail adapter, anodized aluminum. Package of 2. For use with Syntesi Size 1 and 2 air prep components. Mounting hardware included.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.20         |
|                                | <a href="#"><u>88257E5</u></a>  | \$2.25  | Metal Work connector nipple, anodized aluminum. For use with Syntesi Size 1 air prep components. Mounting hardware included.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|                                | <a href="#"><u>88257E6</u></a>  | \$5.75  | Metal Work connector nipple, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.20         |
|                                | <a href="#"><u>88257E7</u></a>  | \$3.25  | Metal Work connector nipple, 90 degree mounting, anodized aluminum. For use with Syntesi Size 1 air prep components. Mounting hardware included.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|                                | <a href="#"><u>88257E8</u></a>  | \$5.25  | Metal Work connector nipple, 90 degree mounting, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.20         |
|                                | <a href="#"><u>5U11P201</u></a> | \$32.00 | Metal Work air distribution block, 1/8in female NPT inlet(s), (1) 1/4in female NPT and (2) 1/8in female NPT outlet(s). For use with Syntesi Size 1 air prep components.                       | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.35         |
|                                | <a href="#"><u>5U12P202</u></a> | \$32.00 | Metal Work air distribution block, 1/4in female NPT inlet(s), (1) 1/8in female NPT and (2) 1/4in female NPT outlet(s). For use with Syntesi Size 1 air prep components.                       | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.35         |
|                                | <a href="#"><u>5U13P203</u></a> | \$32.00 | Metal Work air distribution block, 3/8in female NPT inlet(s), (1) 1/8in female NPT, (1) 1/4in female NPT and (1) 3/8in female NPT outlet(s). For use with Syntesi Size 1 air prep components. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.35         |
|                                | <a href="#"><u>5U23P203</u></a> | \$52.00 | Metal Work air distribution block, 3/8in female NPT inlet(s), (1) 1/4in female NPT and (2) 3/8in female NPT outlet(s). For use with Syntesi Size 2 air prep components.                       | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 1.00         |
|                                | <a href="#"><u>5U24P204</u></a> | \$52.00 | Metal Work air distribution block, 1/2in female NPT inlet(s), (1) 1/4in female NPT, (1) 3/8in female NPT and (1) 1/2in female NPT outlet(s). For use with Syntesi Size 2 air prep components. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.95         |
|                                | <a href="#"><u>5U25P205</u></a> | \$59.00 | Metal Work air distribution block, 3/4in female NPT inlet(s), (1) 1/4in female NPT, (1) 3/8in female NPT and (1) 3/4in female NPT outlet(s). For use with Syntesi Size 2 air prep components. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 1.00         |
|                                | <a href="#"><u>5U26P206</u></a> | \$59.00 | Metal Work air distribution block, 1in female NPT inlet(s), (1) 1/4in female NPT, (1) 3/8in female NPT and (1) 1in female NPT outlet(s). For use with Syntesi Size 2 air prep components.     | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.95         |
|                                | <a href="#"><u>5U10P100</u></a> | \$7.25  | Metal Work air distribution block, 3/8in female NPT inlet(s), (1) 3/8in female NPT and (2) 1/8in female NPT outlet(s). For use with Syntesi Size 1 air prep components.                       | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|                                | <a href="#"><u>5U20P100</u></a> | \$19.50 | Metal Work air distribution block, 1/2in female NPT inlet(s), (1) 1/2in female NPT and (2) 3/8in female NPT outlet(s). For use with Syntesi Size 2 air prep components.                       | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.25         |



# Accessories

# SYNTESI®

| Metal Work Syntesi Accessories  |                                |         |  |                            |                            |              |
|---|--------------------------------|---------|--|----------------------------|----------------------------|--------------|
| Item Photo  | Part No.                       | Price   | Description  | Drawing Link               | Manufacturer Specs         | Weight (lbs) |
|    | <a href="#"><u>88257E9</u></a> | \$2.25  | Metal Work hex bushing, G1/4 male BSPP to G1/8 female BSPP, brass. For use with Syntesi Size 2 regulators and filter-regulators.           | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|    | <a href="#"><u>88257F1</u></a> | \$1.75  | Metal Work port adapter, 1/8in female NPT, anodized aluminum. For use with Syntesi Size 1 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|   | <a href="#"><u>88257F2</u></a> | \$1.75  | Metal Work port adapter, 1/4in female NPT, anodized aluminum. For use with Syntesi Size 1 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|   | <a href="#"><u>88257F3</u></a> | \$1.75  | Metal Work port adapter, 3/8in female NPT, anodized aluminum. For use with Syntesi Size 1 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.05         |
|    | <a href="#"><u>88257F4</u></a> | \$5.00  | Metal Work port adapter, 3/8in female NPT, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|   | <a href="#"><u>88257F5</u></a> | \$5.00  | Metal Work port adapter, 1/2in female NPT, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257F6</u></a> | \$8.50  | Metal Work port adapter, 3/4in female NPT, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257F7</u></a> | \$8.50  | Metal Work port adapter, 1in female NPT, anodized aluminum. For use with Syntesi Size 2 air prep components. Mounting hardware included.   | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|  | <a href="#"><u>88257F8</u></a> | \$7.50  | Metal Work pneumatic mechanical pressure gauge, 40mm diameter, 0 to 180 psi, G1/8 male BSPP process connection, center back mount.         | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|   | <a href="#"><u>88257F9</u></a> | \$7.50  | Metal Work pneumatic mechanical pressure gauge, 40mm diameter, 0 to 60 psi, G1/8 male BSPP process connection, center back mount.          | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|   | <a href="#"><u>88257G1</u></a> | \$7.50  | Metal Work pneumatic mechanical pressure gauge, 50mm diameter, 0 to 180 psi, G1/8 male BSPP process connection, center back mount.         | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|   | <a href="#"><u>88257G2</u></a> | \$7.50  | Metal Work pneumatic mechanical pressure gauge, 50mm diameter, 0 to 60 psi, G1/8 male BSPP process connection, center back mount.          | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.15         |
|   | <a href="#"><u>9700110</u></a> | \$7.50  | Metal Work pneumatic mechanical pressure gauge, 40mm x 40mm, 0 to 180 psi, G1/8 male BSPP process connection, center back mount.           | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257G3</u></a> | \$11.75 | Metal Work pneumatic mechanical pressure gauge, 63mm diameter, 0 to 180 psi, G1/4 male BSPP process connection, center back mount.         | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.20         |
|  | <a href="#"><u>9210101</u></a> | \$26.50 | Metal Work automatic drain, for use with Syntesi Size 1 air prep components. Filter bowl included.   | N/A                        | <a href="#"><u>PDF</u></a> | 0.15         |
|  | <a href="#"><u>9210106</u></a> | \$32.50 | Metal Work automatic drain, for use with Syntesi Size 2 air prep components. Filter bowl included.   | N/A                        | <a href="#"><u>PDF</u></a> | 0.25         |



# Accessories





| Metal Work Syntesi Accessories  |                         |         |   |              |                     |              |
|---|-------------------------|---------|---|--------------|---------------------|--------------|
| Item Photo  | Part No.                | Price   | Description   | Drawing Link | Manufacturer Specs  | Weight (lbs) |
|    | <a href="#">9210150</a> | \$4.25  | Metal Work particulate filter element, replacement, 5 micron particles, yellow UHMWPE. For use with Syntesi Size 1 filters.                               | N/A          | <a href="#">PDF</a> | 0.05         |
|    | <a href="#">9210151</a> | \$4.25  | Metal Work particulate filter element, replacement, 20 micron particles, white UHMWPE. For use with Syntesi Size 1 filters.                               | N/A          | <a href="#">PDF</a> | 0.05         |
|    | <a href="#">9210152</a> | \$4.25  | Metal Work particulate filter element, replacement, 50 micron particles, blue HDPE. For use with Syntesi Size 1 filters.                                  | N/A          | <a href="#">PDF</a> | 0.05         |
|    | <a href="#">9210155</a> | \$5.50  | Metal Work particulate filter element, replacement, 5 micron particles, yellow UHMWPE. For use with Syntesi Size 2 filters.                               | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210156</a> | \$5.50  | Metal Work particulate filter element, replacement, 20 micron particles, white UHMWPE. For use with Syntesi Size 2 filters.                               | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210157</a> | \$5.50  | Metal Work particulate filter element, replacement, 50 micron particles, blue HDPE. For use with Syntesi Size 2 filters.                                  | N/A          | <a href="#">PDF</a> | 0.05         |
|  | <a href="#">9210160</a> | \$45.00 | Metal Work coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with Syntesi Size 1 filters. | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210165</a> | \$77.00 | Metal Work coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with Syntesi Size 2 filters. | N/A          | <a href="#">PDF</a> | 0.10         |
|  | <a href="#">9210190</a> | \$2.00  | Metal Work regulator spring, 0 to 30 psi range. For use with Syntesi Size 1 regulators.   | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210191</a> | \$2.00  | Metal Work regulator spring, 0 to 60 psi range. For use with Syntesi Size 1 regulators.   | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210192</a> | \$2.00  | Metal Work regulator spring, 0 to 120 psi range. For use with Syntesi Size 1 regulators.  | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210193</a> | \$2.00  | Metal Work regulator spring, 0 to 180 psi range. For use with Syntesi Size 1 regulators.  | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210195</a> | \$4.00  | Metal Work regulator spring, 0 to 30 psi range. For use with Syntesi Size 2 regulators.   | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210196</a> | \$4.00  | Metal Work regulator spring, 0 to 60 psi range. For use with Syntesi Size 2 regulators.   | N/A          | <a href="#">PDF</a> | 0.05         |
|   | <a href="#">9210197</a> | \$2.75  | Metal Work regulator spring, 0 to 120 psi range. For use with Syntesi Size 2 regulators.  | N/A          | <a href="#">PDF</a> | 0.10         |
|   | <a href="#">9210198</a> | \$3.00  | Metal Work regulator spring, 0 to 180 psi range. For use with Syntesi Size 2 regulators.  | N/A          | <a href="#">PDF</a> | 0.15         |



# Accessories



| Metal Work Syntesi Accessories  |                                  |         |   |                            |                            |              |
|---|----------------------------------|---------|---|----------------------------|----------------------------|--------------|
| Item Photo  | Part No.                         | Price   | Description   | Drawing Link               | Manufacturer Specs         | Weight (lbs) |
|  | <a href="#"><u>88257G4</u></a>   | \$11.75 | Metal Work solenoid coil, 12 VDC, 2W, 11mm DIN style wiring plug. For use with Metal Work valves.     | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257G5</u></a>   | \$11.75 | Metal Work solenoid coil, 24 VDC, 2W, 11mm DIN style wiring plug. For use with Metal Work valves.     | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257G6</u></a>   | \$11.75 | Metal Work solenoid coil, 24 VAC, 3.5VA, 11mm DIN style wiring plug. For use with Metal Work valves.  | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257G7</u></a>   | \$11.75 | Metal Work solenoid coil, 110 VAC, 3.5VA, 11mm DIN style wiring plug. For use with Metal Work valves. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|   | <a href="#"><u>88257G8</u></a>   | \$11.75 | Metal Work solenoid coil, 240 VAC, 3.5VA, 11mm DIN style wiring plug. For use with Metal Work valves. | <a href="#"><u>PDF</u></a> | <a href="#"><u>PDF</u></a> | 0.10         |
|  | <a href="#"><u>TAP-ACC21</u></a> | \$11.00 | NITRA padlock, replacement, brass. For use with TAP unit.   | N/A                        | N/A                        | 0.5          |



# Air Prep Components

**SYNTEsi**

Metal Work Syntesi is the result of over 30 years of air prep manufacturing. Their goal is to provide high performance and low weight in a compact, affordable package. Syntesi has many standard features unavailable with other brands.

## Features

- Lightweight yet durable bodies of technopolymer and nickel plated brass
- Additional outlet ports front and back of all modules
- Available in two body sizes
- Ports sizes from 1/8" NPT to 1" NPT

