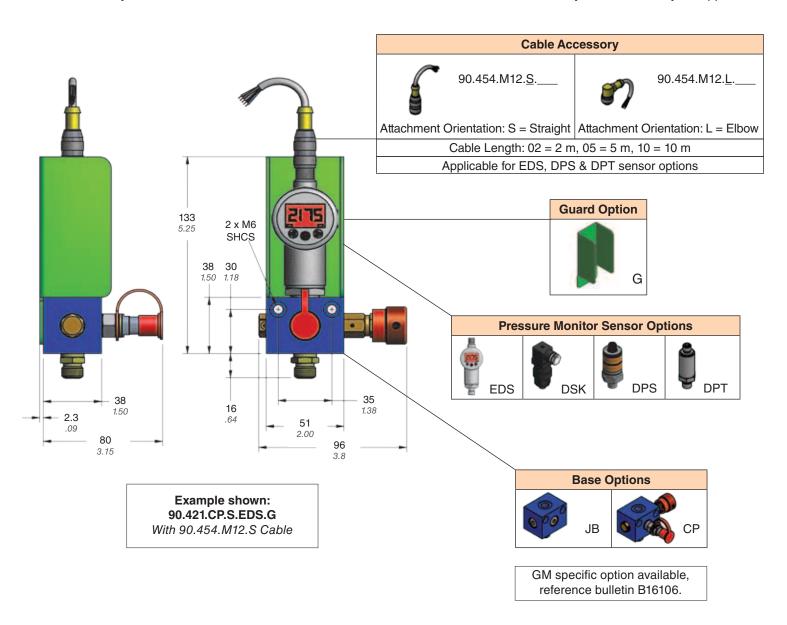
## **Pressure Monitors**

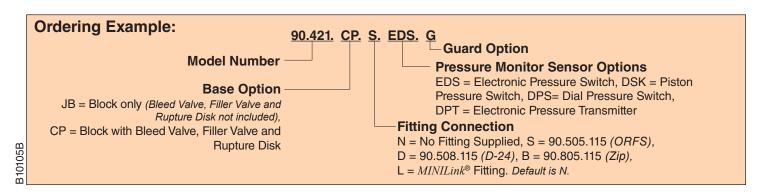
## **Electronic Pressure Monitors**

DADCO offers two types of Electronic Pressure Monitors to monitor nitrogen gas pressure during operation: An Electronic Pressure Monitor Sensor or a Control Panel with Pressure Monitor. For maximum versatility both types have multiple configurations to best suit your application. Pressure Monitor sensor options are detailed on pages 2-3.

## **Electronic Pressure Monitor Configuration**

To customize your Electronic Pressure Monitor, select the base, sensor and cable accessory that best suits your application.





# **Electronic Pressure Monitors**

#### **Electronic Pressure Monitor Sensors**

The Electric Pressure Monitor has four sensor options available: EDS, DSK, DPS and DPT. Review the details provided below to select the correct option for your application.

## EDS – Electronic Pressure Sensor

The EDS features a LED digital display that reads pressure value in bar, psi or MPa. The sensor display face rotates 270° while the body rotates 340°. For added versatility, the sensor also features two switching outputs that can be easily set with face mounted push buttons. Note: EDS uses 90.454.M12 style cable accessory.



**Features:** • Measuring Range: 0-400 bar (0-5800 psi)

> Supply Voltage: 9 - 35 VDC Switch Rating: 1.2 A max

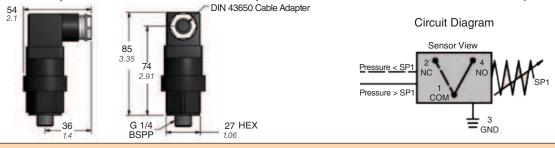
• Output: (2) PNP Pin 2, 4

 Electrical Connection: 4 - pole M12 x 1

 Current Consumption: 35 mA max

#### DSK – Piston Pressure Switch

The DSK switch uses a pressure input to operate a SPDT switch as the pressure rises or falls across a set value. The manually adjusted switch monitors a preset pressure. This switch can be set at the factory and wired to shut down a press operation or activate an alarm once pressure is above or below the set-point. Note: DSK includes a DIN 43650 cable adapter.

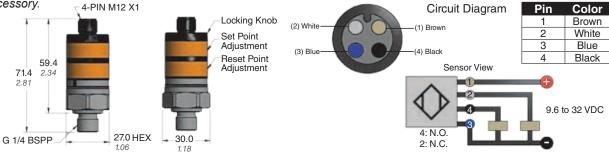


Features:

- Max Pressure Rating:
- Output:
- · Electrical Connection:
- 600 bar (8700 psi)
- SPDT Switch
- DIN 43650
- Range Tolerance: ± 5 bar (± 72.5 psi)
- Switch Adjustment Range: 50-200 bar (725-2900 psi)
- Switch Rating: 1 AMP at 250 VAC, 4 AMP at 24 VDC

#### DPS – Dial Pressure Switch

The DPS switch features two manually adjustable dials. The upper dial is the set pressure and the lower dial is the reset pressure. When the system pressure increases to the set value, Output 1 (pin 4) turns on, and Output 2 (pin 2) turns off. When the system pressure decreases to the Reset Pressure, Output 1 turns off and Output 2 turns on. Note: DPS uses 90.454.M12 style cable accessory.



**Features:** • Measuring Range: 0-400 bar (0-5800 psi)

> Operating Voltage: 9.6 - 32 VDC

· Setting Point Range:

· Reset Point Range: 12-392 bar (175-5685 psi) • Switch Point Accuracy:

 Switch Rating: 500 mA • Electrical Connection: 4 - Pole M12 x 1

 Current Consumption: < 25 mA

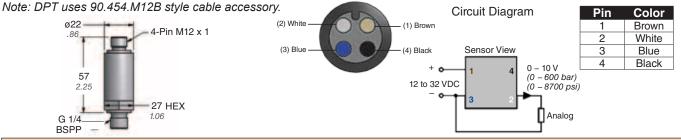
20-400 bar (290-5800 psi) • Switch Output: PnP (1 N.O. & 1 N.C. Complementary)

 $< \pm 2.5\%$ 

## **Electronic Pressure Monitors**

#### DPT - Electronic Pressure Transducer

DADCO's DPT unit is a pressure transducer, emitting an analogue signal that provides a range of voltage. The DPT converts pressure input to a 0 - 10 V output, the voltage output can then be scaled by a press controller to read the pressure value.



Features: • Supply Voltage: 12 – 32 VDC

• Accuracy: 0.5% Full Scale

Output Signal: Analog (0-10 Volts)

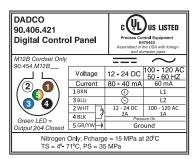
Max Pressure Rating: 600 bar (8700 psi)
Electrical Connection: 4 - Pin M12 x 1

• Current Consumption: <15 mA

## 90.406.421 Control Panel with Pressure Monitor

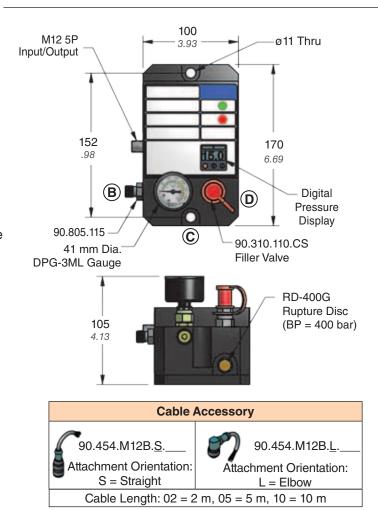


The 90.406.421. Control Panel with Pressure Monitor is used to fill and monitor the pressure of linked nitrogen gas springs from outside the die. The panel is adjustable to read pressure in bar, psi or MPa and includes a digital pressure sensor with programmable output to signal if pressure drops below a preset level. This panel conforms to Toyota standard number D-PACPS-B.



This product is Listed to applicable UL Standards and requirements by UL

Reference B10143 for additional information

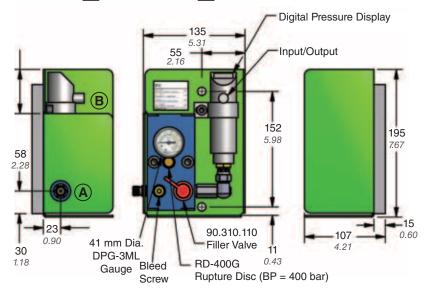




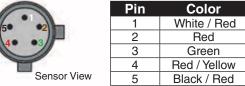
# **Electronic Pressure Monitors**

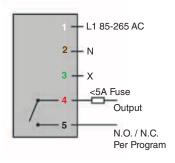
#### 90.416. Control Panel

The 90.416 Control Panel with Pressure Monitor is used to fill and monitor the pressure of linked nitrogen gas springs from outside the die. The panel has a protective guard option and includes an EPD digital pressure sensor which is adjustable to read pressure in bar, psi or MPa. The panel offers programmable output to signal when pressure drops below a preset level; one additional switching output is included. This panel conforms to Toyota standard number D-PACPS-C. *Note:* 90.416. uses 90.454.M5P. cordset.



# Circuit Diagram





#### **Features:**

• Output: SPST N.O. / N.C.

(Normally Open / Normally Closed)

• Supply Voltage: 90 – 240 VAC (45 – 65 Hz)

Max Pressure Rating: 400 bar (5800 psi)

• Electrical Connection: 1/2" – 20UNF 2A

### Control Panel with Pressure Monitor Ordering Example -

To customize your Control Panel with Pressure Monitor, follow the ordering codes below. Fitting Location examples are shown on page 3.

