



AUTOMOTIVE AIR CONDITIONING (A/C) PRESSURE SWITCHES

Low Cost, Low Weight, Industry Proven

PROVEN TECHNOLOGY

For more than 30 years, Sensata's pressure switches have been trusted to provide low cost on/off controls for many automotive systems. The snap action disc reacts to changing pressure by reversing its curvature and activating electrical switch contacts.

FEATURES

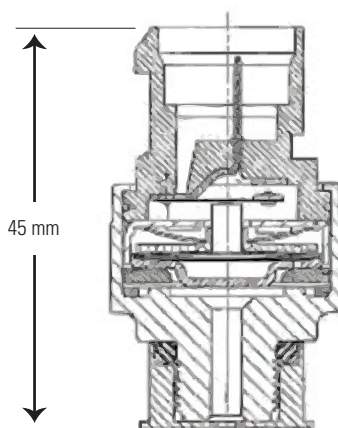
- Designed for underhood environment
- Low weight
- Custom packaging for specific application needs
- Automotive temperature range of -30°C to 125°C
- Normally open and normally closed contact logic
- Dual function capability
- Line mount or compressor pocket mount capability
- Industry proven since 1984

TYPICAL APPLICATIONS

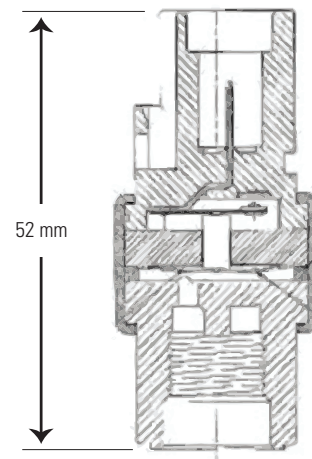
- Dual Function Pressure Switch (DFPS): combines High Pressure Cut-Out (HPCO) with Fan function or High Side Low Pressure (HSLP) function
- HPCO: disables A/C compressor when system pressure becomes excessively high
- Fan: energizes fan to supplement condensor cooling
- Compressor cycling: controls A/C compressor cycling to optimize vehicle cooling
- Loss of charge: disables A/C compressor when system pressure becomes too low
- High Side Low Pressure (HSLP): disables compressor when system becomes too low

DIMENSIONS

Typical examples, other styles available.



Dual Function Pressure Switch (HPCO / Fan or HPCO / HSLP)



Compressor Cycling Switch / Loss of Charge



SPECIFICATIONS*

ELECTRICAL	
Supply Voltage	5 VDC – 24 VDC
Supply Current	5.0 mA resistive 3.5 A inductive
Response Time	<10ms
ENVIRONMENTAL	
Operating Temperature	-30°C to 125°C
Pressure Ranges¹	10 to 500 psig
DURABILITY	
Cycle Life	
Dual Function Pressure Switch	50,000 cycles min.
High Pressure Cut-Out	50,000 cycles min.
Loss of Charge	50,000 cycles min.
Fan Switch	300,000 cycles min.
Compressor Cycling Switch	300,000 cycles min.
Proof Pressure¹	500 psig
Burst Pressure¹	1,250 psig
¹ Typical	
* Performance data available upon request.	

TYPICAL OUTPUT CHARACTERISTICS

