

PELA/PEHA Field Adjustable pressure switch with fixed differential



PELA as above with adjustable ranges from 0.1 bar 1.5 psi) to 50 bar (750 psi)

A proven elastomer 'cushion' support diaphragm is used on all switches where system pressure exceed 80 bar (1200psi) this is a proven concept which prevents any extrusion of the elastomer diaphragm Even at pressures up to 545 bar (8000psi).

How to Order.

PELA 2 - 4G - B - SP

This is model PELA range 2 with 1/4 Bsp Male Conn Normally Closed contacts and spade Terminals.

General Description

The PELA is a inline pressure switch field adjustable ranges from 0.15 bar (2psi) to 50 bar (750PSI) depending on a combination of spring rate and actuator area ref to table opposite for further information. Diaphragm material FKM Standard.

Notes

1. Differential range is less than 5% of full set range.
2. Over pressure PELA to 80 bar (1200psi) PEHA to 600 bar (9000 psi)
3. All switches are CE compliant.
4. Can be supplied with Gold Contacts for use with PLCs or where (less than 12volts and 20 milliamp) switching is required.
5. The rate of pressure rise especially in press type applications can adversely effect the switch life cycle expectancy. In this type of application it is recommended that a snubber be fitted.

Electrical Rubber Boot option 30 if required

| PELA | 2 | > | 4G | > | B | > | SP | > | 2 |
|-------------|---|---|---|---|----------------------|---|--|---|--|
| Model | Range | | Medium Connection | | Switch | | Electrical Connections | | Options |
| PELA | 1 = 2- 15 Psi 3 = 15 - 150 Psi 5 = 150 - 300 Psi 6 = 300 - 750 Psi SEE Table for PEHA | | 2G = 1/8BSP Male 4G = 1/4 BSP Male 2M = 1/8 NPT 4M = 1/4 NPT | | A = N.O. B = N.C. | | SP = Spade Terminal FL = Flying leads | | 1 = Viton 2 = EPDM 7 = Gold Contacts |
| | | | other port thread sizes and options available on request | | | | | | |

PELA/PEHA

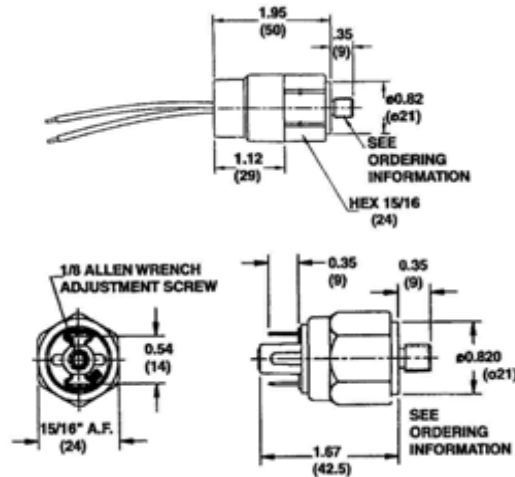
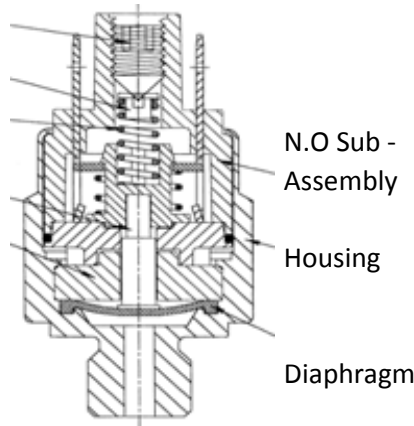
Adjustment Screw

Spring Guide-----

Compression Spring ---

Actuator -----

Gland -----



| | |
|----------------------|---|
| Electrical | Working Voltage 100Va Max Voltage 42VDC |
| Protection | Spade Terminals = 00 / Sealed optional = - IP65 |
| Temperature range | PELA Ambient & Media - 40°F to + 250 °F (- 40° to +120 °C) |
| Mechanical Life | 10,000,000 PELA at 5 bar (75) PEHA at 70 bar (1000 psi) Nitrile |
| Diaphragm material | PELA FKM / PEHA Nitrile Standard (optional EPDM & Viton) |
| Housing material | PELA = Brass/ PEHA zinc plated Steel standard (optional 316SS) |
| Maximum overpressure | PELA 80 bar (1200 psi) / PMHA 600 bar (9000 Psi) |
| Repeatability | ± 5% of full set point range @ 20 °C (70 °F) |
| Weight | 0.06KG (0.14.0lbs) |

Adjustment Ranges

| Model PEHA | Adjustment range | | Average differential | wetted materials |
|---------------|------------------|-----------|--|--------------------------------------|
| | PSI | Bar | | |
| 1 | 15 > 150 | 1 > 10 | Both Models have a fixed differential Less than 5% of Full Set Point Range. | FKM Nitrile and Zinc Plated Steel |
| 2 | 150 > 300 | 10 > 20 | | |
| 3 | 300 > 750 | 20 > 50 | | |
| 4 | 750 > 2250 | 50 > 150 | | |
| 5 | 2250 > 4500 | 150 > 300 | | |

*Option = 30 Rubber boot Electrical protection Cover

*Option 7 may be required for less than 12VDC and 20 Milliamps

| Model PELA | Adjustment range | |
|---------------|------------------|---------|
| | Bar | Psi |
| 1 | 0.0/1 | 1.5/15 |
| 3 | 1.0/10 | 15/150 |
| 5 | 10./20 | 150/300 |
| 6 | 300/750 | 50/150 |

How to adjust pressure switch settings

1.adjust clockwise set point adjustment to increase set point and counter clockwise to decrease,