The Spartan Scientific PSE10 is a fully programmable electronic pressure switch utilizing the latest in pneumatic and hydraulic sensing technology. The PSE10 features all solid state sensing with solid state programming and switching. With no moving parts, the PSE has an extremely long life expectancy. Available in versions from vacuum to 6000 PSI, the switch has an on board digital pressure readout which can be programmed to be viewed either upside down or right side up, as well as a 360 degree viewable indicator light to show switching state. Built from rugged engineered materials, the PSE has a quick connect electrical connection and a fluid connection of 1/4" NPT or BSP. With an environment protection of IP67, the PSE is suitable for high humidity and foreign materials. Switching can be either normally open or normally closed with a maximum current output of 1.3 amps and is short circuit protected. The voltage range is 18 to 32 VDC with an operating temperature of -20° to 70°C.

## Dimensional Data



1.18

.31

Display can be flipped 180° for easy viwing

Ø .472
M12x1
4Pin

05.6

360° Indicator Lights

2.28

3.07

SET

SPARTAN
SCIENTIFIC

Ø .20

.295

.787

1.18

1.18

Ø .157
1/4" NPT or BSP
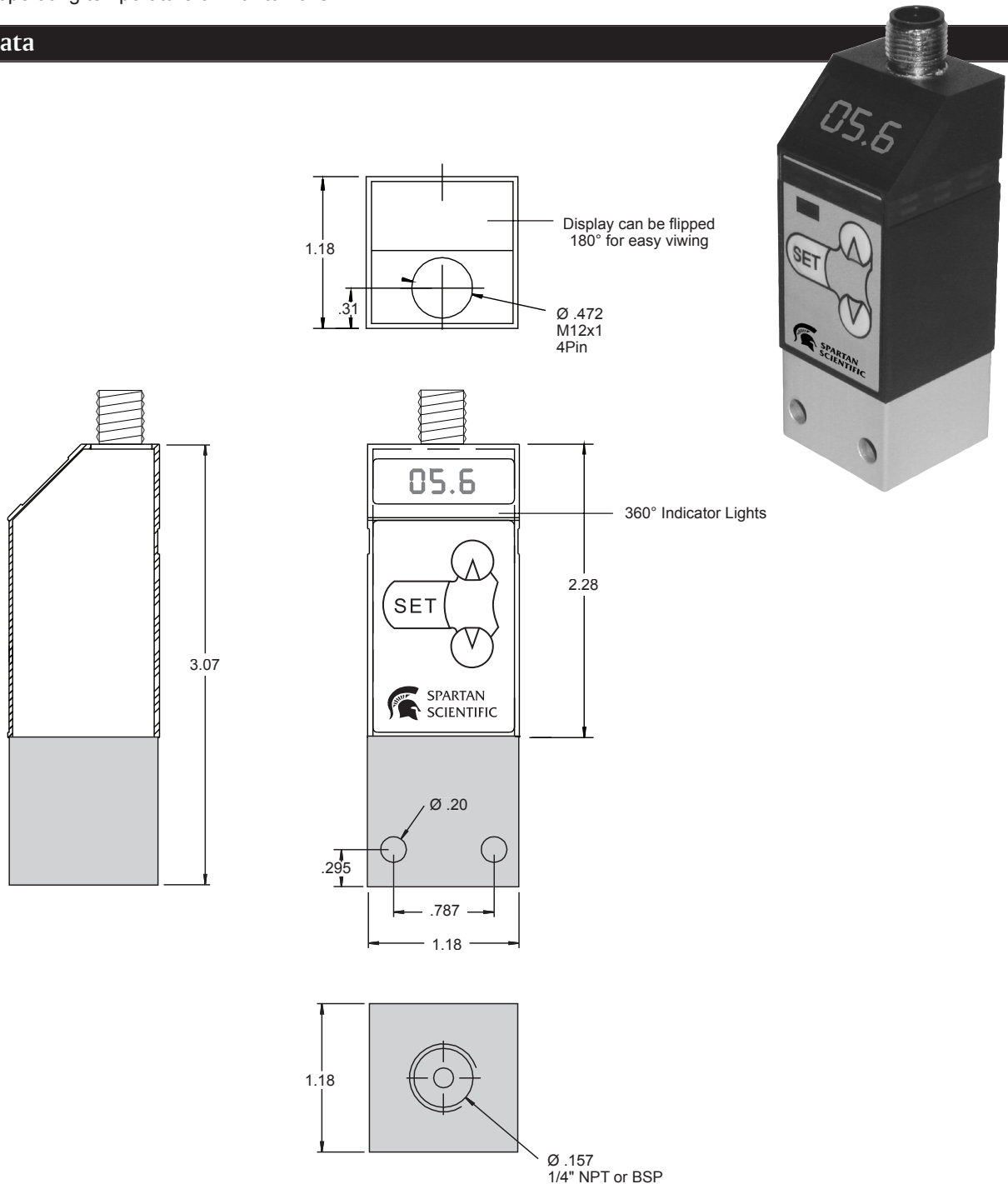
# SPARTAN SCIENTIFIC

*www.spartanscientific.com*

P.O. Box 9792,  Boardman, Ohio 44513
(330) 758-8446    Fax:  (330) 758-3314

## Technical Data

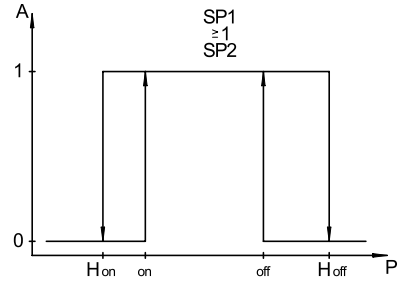| | |
|---|---|
| **Operating Voltage:** | 18 - 32 VDC |
| **Current Consumption w/o Switching Output:** | <80 mA |
| **Switching Current SP1** | 1.3 Amp. |
| **Switching Current ERROR/SP2:** | .3 Amp |
| **Switchlogic Programmable:** | N.O. / N.C. |
| **Switch Outputs:** | Short circuit protection ESD - protection |
| **Electrical Connection:** | Cicular connector M12x1, 4 Pole |
| **Process Connection:** | 1/4" NPT or 1/4" BSP |
| **3 - Digit LED Display:** | Height 10mm red |

| | |
|---|---|
| **Display Programmable**: | 0° / 180° (Overhead mode) |
| **Indicator for Switch Status "All-Around":** | LED red flashing / green |
| **Protection Class:** | IP67 |
| **Temperature Range**: | -20°C to 70°C |
| **Temperature Range Medium**: | -20°C to 70°C |
| **Watted Materials:** | AL / Stainless Steel / Viton/ Ceramic |
| **Overload Pressure:** | $2xP_N$ (400 bar; $1.5xP_N$) |
| **Linearity**: | $\leq \pm 0.2$ to 1.5% $P_N$ |
| **Temperature Sensitivity (Zero Point)**: | $\pm 0.2\% P_N$ |

**Window-comparator with hysterese**
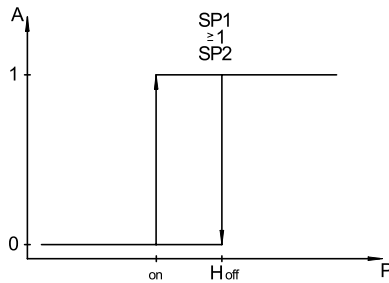
**Window-comparator with 2x hysterese**

## How To Order

PSE100 - 00 - □ 00 □

**Port Thread**

0 - 1/4" NPT
1 - 1/4" BSP

**Pressure Range**

A - 15 to 130 psi
B - 10 to 230 psi
C - 0 to 870 psi
D - 0 to 1450 psi
E - 0 to 3625 psi
F - 0 to 5800 psi
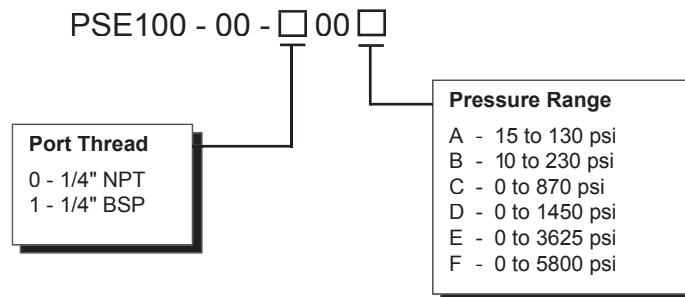
Order Example: PSE100-00-000A
Series PSE10, 15 to 130 psi.