

MPS Pressure Sensors

INDIVIDUAL PRESSURE SENSORS



GUARDSMAN & VANGUARD EXTRA PORT MODULAR KITS
Available only in 60, 70, and 100 Series



ASSEMBLIES with REGULATORS

OUTPUT MODES

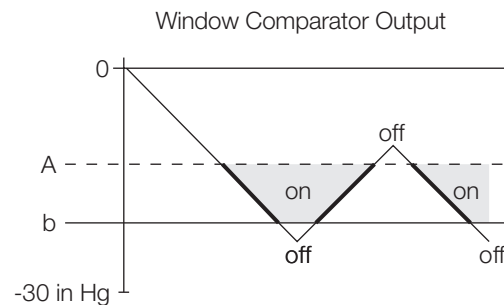
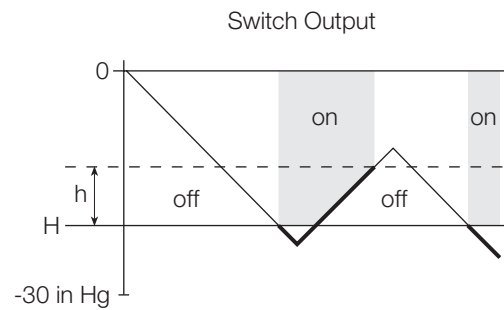
The **MPS** sensor has two independent **NPN** or **PNP** open collector output signals. An analog output is optional.

The Switch Output Mode (see diagram at the right) has a switch point programmed by the user at a specific pressure. The hysteresis range (h) adjustment controls the output signal from 0 to 100% below the switch point (H).

The Window Comparator Mode (see diagram at the right) provides two switchpoint settings (A) and (b) that control the output signals (**NPN/PNP**) between two pressures. This is referred to as the high/low setting.

The optional analog output is calibrated to the pressure scale of the sensor.

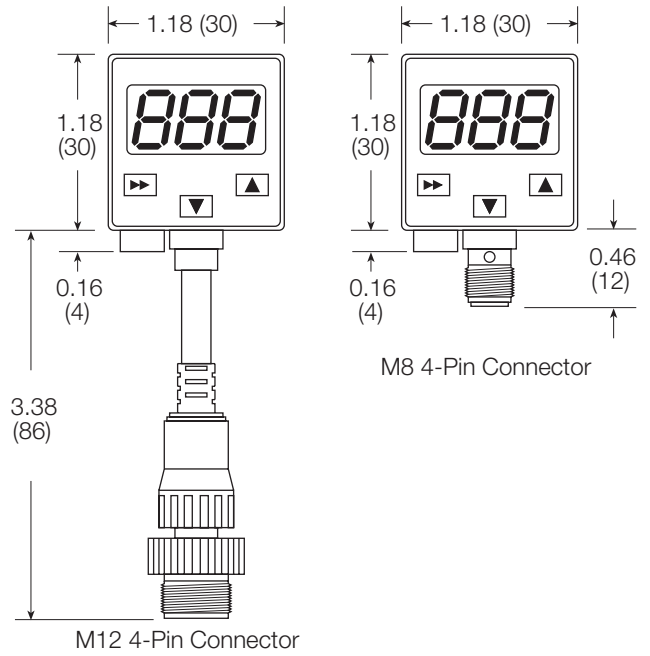
- ◆ Panel mounting; inline mounting; modular assembly.
- ◆ Four operating pressure ranges:
Positive pressure.....0 to 145 psi
Vacuum pressure0 to -30 in Hg
Low pressure0 to 14.7 psi
Compound -14.7 to 72.5 psi
- ◆ Two **NPN** or **PNP** (sourcing) and **NPN** (sinking) open collector.
- ◆ Output response time less than 2 milliseconds, or can be programmed.
- ◆ Switch point and high/low programming.
- ◆ Selectable units of measure:
(1) mm Hg, -bar, -kPa, in Hg.
(2) kgf/cm², PSI, bar, kPa.
- ◆ IP65 rated and CE marked.
- ◆ Uses air or non-corrosive gases.
- ◆ Displays error message.



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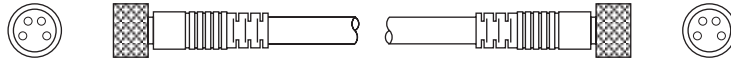
MPS Pressure Sensors (continued)

DIMENSIONS inches (mm)

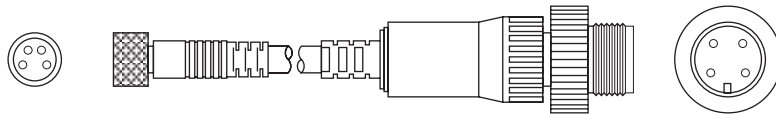


ACCESSORY CABLES

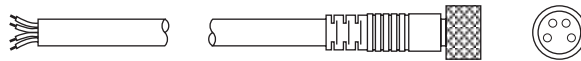
2-Meter Cables



Model 33-548-2M



Model 33-549-2M



Model 33-550-2M

ORDERING INFORMATION for MPS PRESSURE SENSOR (Without Regulator)

Change the letters in the sample model number below to specify the sensor you want.

MPS - 1 A 1 A 1 A 0

PRESSURE SENSOR ASSEMBLY

- Individual pressure sensor unit..... A
- Pressure sensor with 1/8" plug and brass hex fitting for regulators. B
- Pressure sensor with extra port and one modular connector. (Guardzman & Vanguard modular units only) C

PRESSURE RANGE

- 0 to 145 psig (positive pressure) 0
- 0 to 14.7 psig (low pressure)..... 1
- 0 to -30 in Hg (vacuum) 2
- 14.7 to 72 psig (compound) 3

ELECTRICAL CONNECTOR

- 4-Pin, M8 A
- 4-Pin, M12 B

CIRCUIT

- NPN sinking output 0
- PNP sourcing output 1

PORT SIZE

- 1/8 NPTF..... A

ORDERING INFORMATION for MPS PRESSURE SENSOR WITH REGULATOR

Change the letters in the sample model number below to specify the regulator/sensor you want.

A 4 A-MPS-1 A 1 A 1 A 0

REGULATOR: Modular extra port and modular clamping included.

- R60 (See pages 120-121)..... A
- R60-H (See pages 120-121)..... B
- R75 (See pages 122-123)..... C
- R75-H (See pages 122-123)..... D
- R100 (See pages 124-125)..... E
- R100-H (See pages 124-125)..... F
- IR100 (See pages 136-137)..... G
- IR100-H (See pages 136-137)..... H
- PR100 (See pages 144-145) J
- PR100-H (See pages 144-145) K

REGULATOR PORTS

- 3/8 NPTF..... 3
- 1/2 NPTF..... 4
- 3/4 NPTF (R100 regulators only)..... 6
- 3/8 BSPP C
- 1/2 BSPP D
- 3/4 BSPP (R100 regulators only) E

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