

All Sensors Corporation

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New Basic Low Pressure, Compact Sensor With Dual Die

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All Sensors Corporation of Morgan Hill, California has announced a brand new low pressure sensor, the **BLCR Series**. This new device series offers design engineers excellent performance over pressure ranges of ± 1 inH₂O through ± 30 inH₂O. The BLCR Series is based on a dual die reference technology to reduce all output offset or common mode errors. It also incorporates All Sensors' CoBeam²™ Technology to reduce the overall supply voltage while maintaining comparable output levels to traditional equivalent basic sensing elements. This lower supply voltage gives rise to improved warm-up shift while the CoBeam²™ Technology itself reduces package stress susceptibility resulting in improved overall long term stability. The technology also vastly improves position sensitivity to nearly immeasurable levels.

This series is intended for use with non-corrosive, non-ionic working fluids such as air, dry gases and the like. The compact size of this series will provide excellent opportunities for small mobile devices. The basic output is also ratiometric to the supply voltage and is operable from 1.8 to 3.3 volts DC, which are ideal for battery applications. Devices are available in 1, 5, 10, 20, 30 inH₂O (250, 1.25k, 2.5k, 5k, 7.5k Pa) differential ranges.

Package Features

- Miniature package, PC board mountable in SMT and DIP lead configurations
- Multiple port options available

Product and Electrical Features

- uPower low supply voltage (1.8V to 3.3V)
- Ratiometric basic output
- 0.1% linearity typical
- Improved front to back linearity
- Less position sensitivity
- Improved warm-up shift distribution
- Parylene coating available upon request
- Operating temperature range: -25°C to 85°C

Applications

Ideal applications for this device are; medical devices, medical instrumentation, environmental controls, HVAC, portable/hand held devices, all ultra low pressure applications

Price

Contact factory for price. Samples are available for product testing

For additional information, please visit:

<https://www.allsensors.com/products/blcr-series>

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