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Compact Non-Contact Radar with Bluetooth Setup

BinMaster's new line of compact non-contact radar – aka CNCR – level sensors puts 80 GHz of precision to work measuring simple and aggressive liquids. Small in stature, but big on features these sensors set up simply using Bluetooth and the Wireless Device Configurator app loaded on a smartphone or tablet. The app can also be used to diagnose and change display parameters once the sensor is installed from up to 80 feet away.

The sensors have zero dead zone, measuring up to the sensor face, making them very accurate and ideal for smaller vessels and simple applications. The CNCR's 80 GHz technology measures through plastic vessel walls or lids, allowing it to be mounted unobtrusively and easily without cutting a hole in the vessel. CNCR sensors measure reliably through foam, vapor, and steam. The CNCR is not affected by fluctuations in temperature or condensation. The sensor enclosures are molded of PVDF plastic and feature FKM seal materials for exceptional mechanical strength and chemical resistance.

These devices are offered with 2-wire 4-20 mA and 4-wire Modbus outputs. The CNCR sends measurement data to an HMI or PLC or to the BinView® web application or Binventory® software for viewing on a phone, tablet, or PLC. Level data can also be output to a digital panel meter or control console for local walk or drive up access.

The narrow beam angle is easily aimed to avoid obstructions or structure in the vessel that could interfere with performance. Mounting is simple using one of four galvanized steel mounting brackets or one of four mounting plates offered in 0, 5, 10, and 30-degree angles. Alternatively, BinMaster's swivel mount allows precise aiming with adjustability up to 40 degrees to perfectly point the sensor at the desired measurement location.

The CNCR-100 series wires quickly using a simple pigtail connection. There are four CNCR-100 models offered in measuring ranges from 26 to 98 feet for general use or with optional hazardous location approvals. Enclosures are weather-resistant for dust and water ingress and have IP66/IP68 ratings. The CNCR-200 series features three models that measure from 26 or 49 feet, with an optional LED display and push button controls. Great for basic liquid level applications in unclassified areas, the CNCR-200 sensors have IP66/IP67 NEMA Type 4X enclosure approvals and are often used to measure liquid levels through plastic tank walls or the lid of an IBC.

These compact sensors are exceptionally versatile for use in all types of food stuffs for humans or animals, taking on the challenges of translucent, opaque, or transparent materials such as beverages, oils, fats, and sauces. The CNCR can be used in oils and fuels and all types of mechanical fluids. It can be used in many types of chemicals, fertilizers, colorants, or adhesives stored in bulk storage tanks, industrial bulk containers (IBCs), or drums. The CNCR can take on most any type of water application from drinking or purified water, to municipal water and sewage treatment, and industrial water and wastewater vessels. In open air applications, the CNCR can be used for monitoring sewer overflows, basins, dams, rivers, and bridges.

About BinMaster

BinMaster got its start in the early 1960s when a local seed company asked Garner Industries to fabricate a switch to alert when bins were full. Today, BinMaster is a privately held, independent US manufacturer of point and continuous level indicators and inventory management systems used for monitoring bulk solids or liquids in bins, tanks, silos, and hoppers. More than just level sensors, the company offers complete solutions using wireless devices and web applications to send data to a control room, console, smartphone, tablet, or PC. Robust, custom systems can be developed for a single site or networked across a multi-national operation. BinMaster is certified to ISO 9001 quality management systems—requirements. For more information about BinMaster, visit www.binmaster.com.

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