

BINMASTER CNCR-400



Compact 80 GHz Radar for food, pharma & more

The CNCR-400 80 GHz non-contact radar sensor is for non-contact level measurement in vessels containing liquids and solids. It measures vessels up to 49 feet/15 meters in sanitary processing operations.

Only about 6" long and 1.5" in diameter, this compact sensor is designed for food, beverage, and pharmaceutical applications. The CNCR-400 can be used in mixers or vessels with agitators. It measures accurately in turbulence, condensation, and in vessels with buildup. An optional universal hygienic connection makes it easy to install.

CNCR-400 How it works

This compact radar level sensor emits a continuous 80 GHz radar signal through the antenna face. When the material reflects the emitted signal, the antenna receives it as an echo. The frequency difference between the emitted and received signal is used to calculate the level in the vessel. It is ideal for small vessels since it has no dead zone, measuring up to the sensor face.



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Inventory on a phone & PC

CNCR-400 is compatible with the BinCloud® inventory management system. This software lets authorized users view every silo and every site with one login. BinCloud enables access to real-time inventory from the plant floor, control room, office, or while working remotely. Get automated alerts and reports while doing away with manual inventory monitoring.

Sensor housing configurations

CNCR-400 versions include a programmable colored indicator light that makes the sensor status visible from a distance; a digital display with a ring light indicator; and an all-metal housing ideal if no local display or status indication is required. Any unit configuration is easy to set up using a Bluetooth application and integrates easily into a control system using an IO-Link.



Certifications

The CNCR-400 has standard c-UL-US ordinary location approvals. It also offers worldwide hygienic approvals including FDA, 3A, and EHEDG for food, beverage, and pharmaceutical applications.

Designed for hygienic use

The standard housing material is 316L stainless steel. Also, a high-impact, chemical-resistant PC/PBT thermoplastic housing is available. Housings are offered protection classes IP66/IP67 and up to IP69. The wetted parts of the sensor are made of PTFE and 316L stainless steel. The process seal is made of chemical and tear-resistant FKM or EPDM.

Specifications

Measuring principle	Radar
Measuring range	49' (15m)
Frequency	80 Ghz
Beam angle	12"
Dead zone	None
Accuracy	0.2" (5mm)
Voltage	12 to 35 VDC
Output	4-20 mA, PNP/NPN, IO-Link
Enclosure material	Plastic, Stainless Steel
Materials, wetted parts	PTFE, 316L, PEEK
Seal material	EPDM, FKM
Enclosure rating	IP66/IP67, IP66/IP67/IP69
Mounting	Thread 3/4" NPT, G3/4, Thread 1" NPT, G1

Operating conditions

Process pressure	-1 to 16 bar (-14.5 to 232.06 psig)
Process temperature	-40° to +130°C (-40° to +266°F)
Ambient temperature	-40° to +70°C (-40° to +158°F)

Setup

Bluetooth standard	Bluetooth 5.0
Bluetooth range	Typically 82 ft (25 M)

Approvals

Foodstuffs/Pharma approvals	3A, EHEDG, FDA
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