

Level detection sensors ideal for non-conductive media or for object detection

CAPACITIVE SENSORS IN CUBIC DESIGN WITH IO-LINK

Capacitive sensors from Balluff are dependable choices for object and fill level detection. Our series of uniflat Q40 sensors perform their task without contact through plastic and glass container walls up to 4 mm thickness. They are versatile in many possible application, with a large detection range that makes them reliable in various applications.

Their uniflat design makes them easy to mount directly on a flat surface or on pipes by using zip ties, requiring very little space. Their sensitivity can be easily adjusted via IO-Link or a teach-in wire.

New possibilities with IO-Link

The ability to load settings remotely enables, among other things, parameters to be adjusted dynamically during operation or to automatically transfer

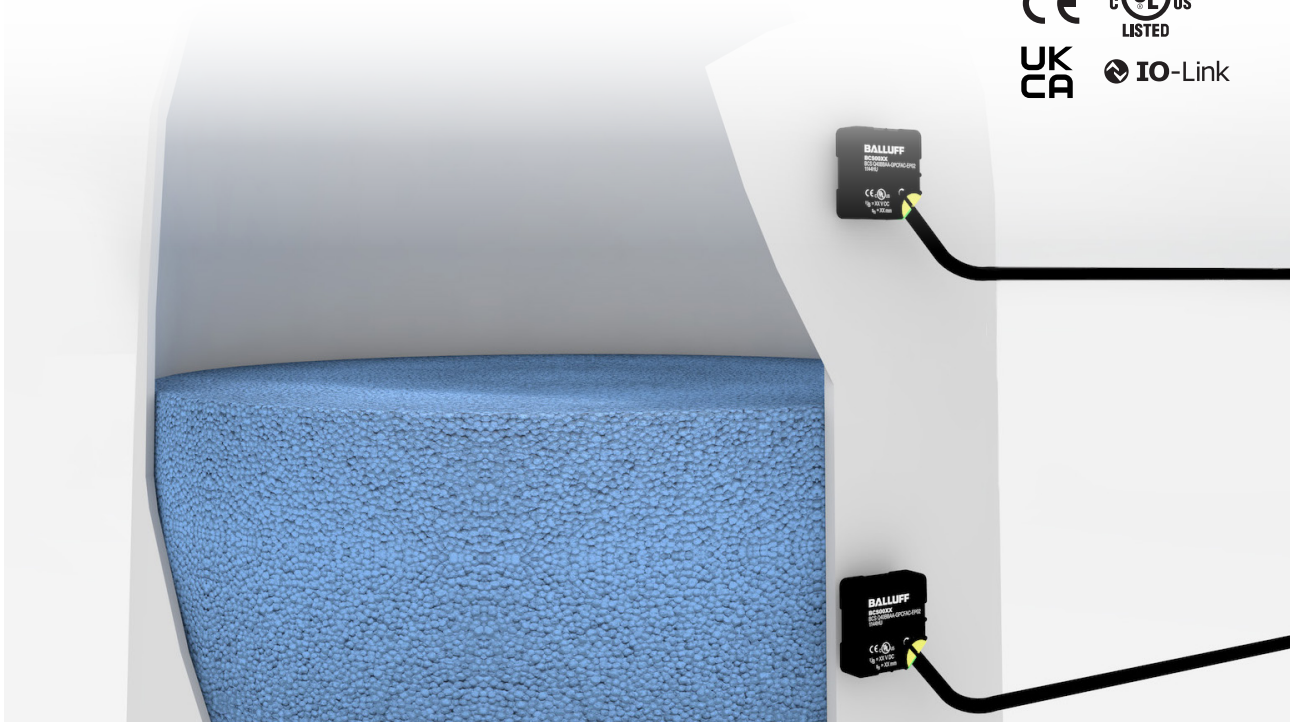
settings to a replaced sensor. Extended diagnostic options allow you to quickly identify faulty devices/processes or initiate preventive maintenance, thus increasing your machine availability.

Reliably detect fill levels and objects and prevent downtimes

For trouble-free production, containers must always be sufficiently filled, but also must not overflow. This requires reliable monitoring, even for containers that are difficult to access. Capacitive sensors from Balluff are a reliable solution here. For level detection, two sensors are simply placed at high and low points outside the container. The capacitive sensor detects, when the level falls below or exceeds the limit so that you can react and reduce machine downtimes.

Features

- Non-contact object or level detection
- Leak detector: Detect smallest liquid quantities
- Simple parameterization via IO-Link or teach-in wire
- Flexible output signals: PNP, NPN, push-pull and IO-Link
- Extended diagnostic options such as switch counter, current/voltage monitoring, signal delay, etc.



Sensors for level detection monitor high and low level of bulk materials without contact. To avoid dry running or overflowing of the tank.

BCS CAPACITIVE SENSORS



	BCS01AJ
Dimension	40 × 40 × 10 mm
Installation	Flush
Connection	0.3 m PUR cable with M12 connector, 4-pin
Switching output	Push-pull PNP/NPN, NO/NC, programmable
Switching frequency	50 Hz
Interface	IO-Link 1.1
Range	1...20 mm
Sensitivity	Switching distance teachable
Housing material	PBT
Material sensing surface	PBT
Ambient temperature	-20...85 °C
Operating voltage U_b	10...30 V DC
Approval/Conformity	CE, UKCA, cULus
IP rating	IP67

CONNECTIVITY



2 M CABLE	BCC032F
5 M CABLE	BCC032H
10 M CABLE	BCC032J
Connection	M12 female, straight, 5-pin, A-coded
Cable	PUR black, 2 m, drag chain compatible