

Smart Automation and Monitoring System

INDUCTIVE WASHDOWN SENSORS WITH ADDED VALUE

The Smart Automation and Monitoring System (SAMS) represents Balluff's comprehensive automation philosophy. Thanks to its uniform and standardized operating and configuration concept, long startup times, prolonged training and time-consuming troubleshooting when a device fails unexpectedly are a thing of the past.

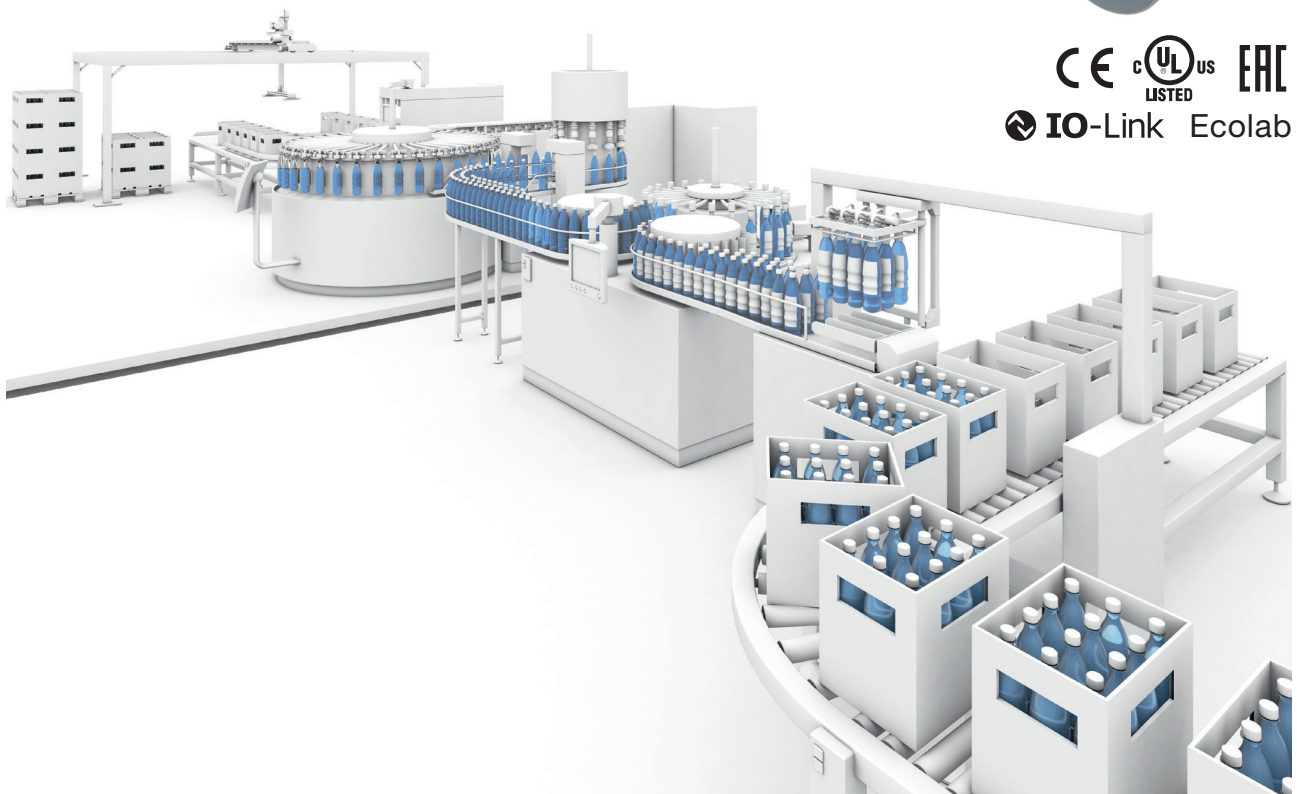
In addition to process and condition data, our intelligent components provide valuable diagnostics data. This opens up vast new possibilities – from condition monitoring of the machines and equipment, to predictive maintenance, to entirely new business models.

Our new inductive IO-Link sensors are part of this system. These assure you reliable object detection even under highly challenging conditions, including the demanding cleaning processes required in washdown applications.

Our sensors are also convenient to use. You can teach the switching point precisely for your particular configuration. The output signal can also be set in various ways, so that you can use the sensor, for example, as normally open or normally closed.

Features

- Teachable switching point
- Washdown plus, designed especially for the most demanding cleaning processes
- Hygiene class materials (1.4404/PBT stainless steel)
- Expanded IO-Link functionality using SAMS (Smart Automation and Monitoring System)
- Smart features, such as internal temperature and relative humidity monitoring



INDUCTIVE SENSORS



	BES05Y7	BES05ZW	BES05WY	BES0601
Dimension	Ø 12 × 65 mm	Ø 12 × 65 mm	Ø 18 × 66 mm	Ø 18 × 66 mm
Size	M12 × 1	M12 × 1	M18 × 1	M18 × 1
Installation	quasi-flush	non-flush	quasi-flush	non-flush
Rated operating distance	4 mm	8 mm	8 mm	12 mm
Interface	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Switching output	PNP/NPN/push-pull NO/NC, Push-pull NO/NC	PNP/NPN/push-pull NO/NC, Push-pull NO/NC	PNP/NPN/push-pull NO/NC, Push-pull NO/NC	PNP/NPN/push-pull NO/NC, Push-pull NO/NC
Switching frequency	1000 Hz	1000 Hz	500 Hz	700 Hz
Housing material	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4404
Material sensing surface	PBT	PBT	PBT	PBT
Connection	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded	M12 male, 4-pin, A-coded
Operating voltage	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Ambient temperature	-40...85 °C	-40...85 °C	-40...85 °C	-40...85 °C
IP rating	IP68, IP69K	IP68, IP69K	IP68, IP69K	IP68, IP69K
Approval/conformity	CE, EAC, cULus, IO-Link, Ecolab	CE, EAC, cULus, IO-Link, Ecolab	CE, EAC, cULus, IO-Link, Ecolab	CE, EAC, cULus, IO-Link, Ecolab

CONNECTIVITY



0,6 M CABLE	BCC0JRY
1 M CABLE	BCC0KT3
2 M CABLE	BCC0JRZ
3 M CABLE	BCC0KRM
Connection 1	M12 female, straight, 5-pin, A-coded
Connection 2	M12 male, straight, 4-pin, A-coded
Cable	TPE-V gray