Sensor data – anytime and anywhere

PHOTOELECTRIC MULTI-FUNCTION SENSOR

Generating, transporting and processing information: this is what the Industry 4.0 environment is all about. Intelligent in situ sensors like the new **BOS 21M ADCAP** photoelectric multi-function sensor provide the needed input. It detects on-site operating conditions, collects and processes information and provides far more data than just the switching signal over IO-Link.

With four photoelectric sensor principles in one device you can always adapt the sensor function to your application – and use the sensor for background suppression, as a diffuse, retro-reflective or through-beam sensor. Simply change the function depending on the object via IO-Link, and the best and most reliable detection method is available to you.

The detection signals are pre-processed in the sensor, relieving you of much of the programming and taking the load off the system controller. Via a counter function, the sensor offers various counting and reset modes. Its freely configurable frequency monitoring also allows you to perform tasks such as detecting and monitoring speeds.
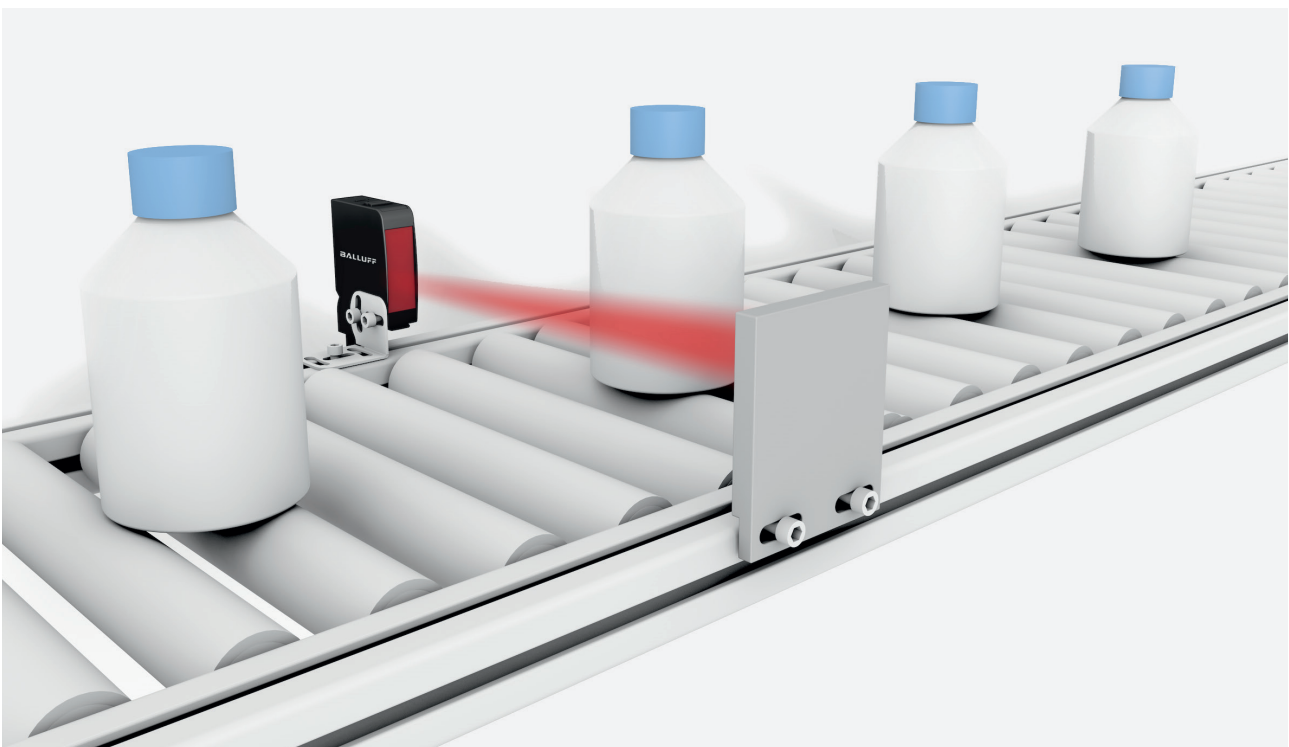
Totally unique in sensors of this size is the ability to constantly monitor the light intensity and brightness of the LED emitter beam. Thanks to diagnostic information with live values for light remissivity and operating hours you can recognize trends and irregularities early to prevent critical operating conditions before they occur.

Features

Three unique **AD**vanced **CAP**abilities are among the integral components
- Multi-function sensor unit
- Intelligent data pre-processing in the sensor
- Smart, efficient diagnostics

CE ⊘ **IO**-Link

PHOTOELECTRIC
MULTI-FUNCTION SENSOR

	BOS026R
Background suppression	8…200 mm
Diffuse sensor	1…600 mm
Retroreflective	7 m
Through-beam	10 m
IO-Link Functions: (Version 1.1)	■ Multiple sensing unit – 4 photoelectric sensor principles selectable ■ Configurable counting and speed-check (count per time) functions ■ Sensor smart diagnostics, emitter power monitoring ■ Additional service functions, output configuration, timer functions ■ Generation of additional data such as light remissivity, operating hours, etc.
Emitter, light type	LED, Red light
Degree of protection IEC 60529	IP67
Ambient temperature	–5…+55 °C
Housing material	Die-cast zinc, Aluminum, Glass
Connection	M12 connector, 4-pin

ACCESSORIES

	BAM00UK	BAM00WL	BAM00TH	BAM00T9
Type	Reflector, Material PMMA / ABS, Ø 84 × 7.3 mm, Mounting M4 screw	Reflector, Material PMMA / ABS, 51 × 61 × 8 mm, Mounting two M4 screws	Clamping holders, Material Aluminum, 15.5 × 19 × 14 mm, Sensors with Dovetail clamp, Mounting M4 screw	Mounting brackets, Material Stainless steel, 20 × 50 × 26.5 mm, 2 adjustable axes, Mounting M4 and M5 screw

CONNECTOR

	BCC039M	BCC03AE
Type	M12 female straight, 5 pin/ M12 male straight, 4 pin, 2 m Cable	M12 female right-angle, 5 pin/ M12 male straight, 4 pin, 2 m Cable