

Focus on the essentials with the BGL entry series

NEW GENERATION OF BASIC FORK SENSORS

Balluff is adding a basic fork sensor variant as an extension of their portfolio. This "Entry" series represents the perfect balance between functionality and user-friendliness, built into an extremely robust design. In short, it is probably the easiest way to use an optical sensor.

Fork sensors are photoelectronic sensors that have a light transmitter and receiver integrated in one housing. In industrial automation, they are used to detect objects, monitor positions and thus control processes.

Straightforward and efficient

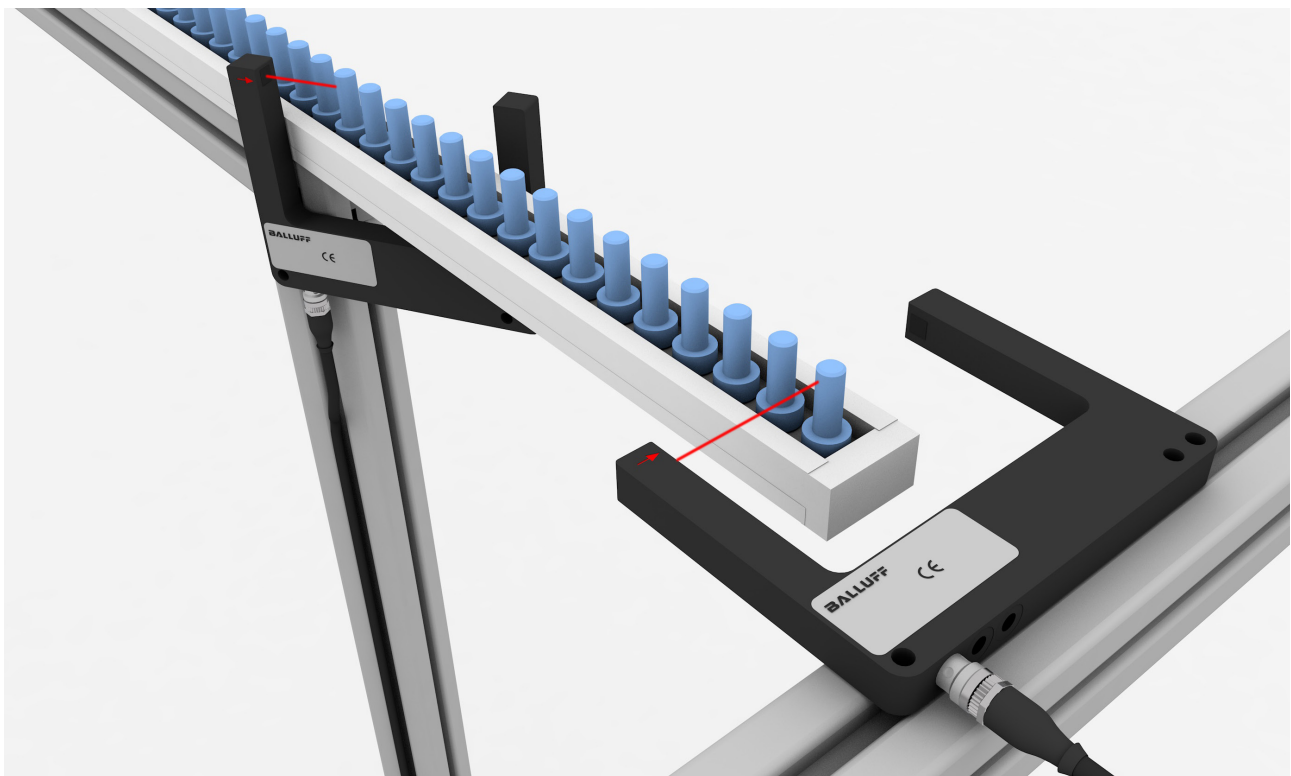
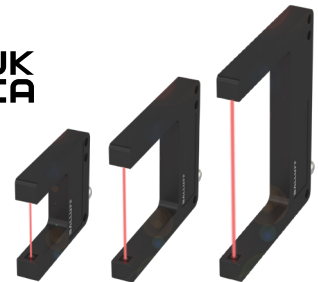
The Entry series of fork sensors is the ideal solution for users who need a sensor solution that is as economical as it is reliable. Thanks to having the transmitter and receiver in one housing and their practical plug and play system, there is no need for time-consuming settings, so the fork sensors are ready for immediate use.

The BGL Entry variants use red light, offer basic functions and are cost-optimized but do not compromise on the usual Balluff robustness: the sensors detect objects regardless of color and surface, even under demanding industrial conditions thanks to the robust metal housing.

Mechanically, they are fully compatible with the existing variants.

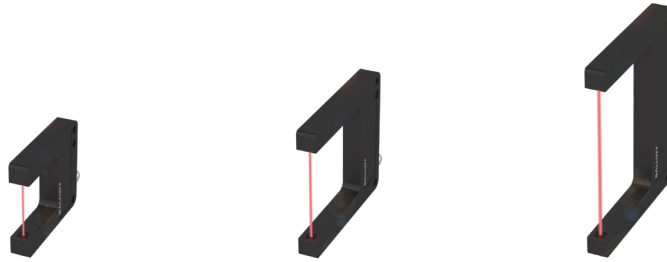
Features

- Ready for immediate plug and play use
- Transmitter and receiver already adjusted in one housing
- Simple alignment and monitoring thanks to visible red transmitter light
- Reliable object detection regardless of color and surface
- IP67 die-cast zinc housing for use, even in harsh environments
- Three fork size openings for different requirements: 30, 50 and 80 mm
- Mechanically fully backwards compatible



BGL fork sensors are the perfect choice for accumulation monitoring and presence check in a feeding system.

BGL FORK SENSORS



	BGL0070	BGL006Y	BGL006Z
Dimension	10 × 50 × 68 mm	10 × 70 × 88 mm	10 × 100 × 88 mm
Fork opening	30 mm	50 mm	80 mm
Interface	Push-pull NO PNP/NC NPN	Push-pull NO PNP/NC NPN	Push-pull NO PNP/NC NPN
Principle of optical operation	Through-beam sensor	Through-beam sensor	Through-beam sensor
Beam characteristic	Divergent	Divergent	Divergent
Light type	LED, red light	LED, red light	LED, red light
Light spot size	Ø 0.85 mm light exit	Ø 1 mm light exit	Ø 1.2 mm light exit
Connection	Connector, M8 male, 3-pin	Connector, M8 male, 3-pin	Connector, M8 male, 3-pin
Housing material	Die cast zinc, coated, black	Die cast zinc, coated, black	Die cast zinc, coated, black
Material sensing surface	Glass	Glass	Glass
Operating voltage	10...30 V DC	10...30 V DC	10...30 V DC
Approval/conformity	CE, UKCA	CE, UKCA	CE, UKCA

CONNECTIVITY



	BCC02M8	BCC02ML	BCC03F8
Connection1	M8-female, straight, 3-pin, A-coded	M8-female, angled, 3-pin, A-coded	M8-female, straight, 3-pin, A-coded
Connection 2			M12-male, straight, 3-pin, A-coded
Cable	PUR black, 2 m, drag chain compatible	PUR black, 2 m, drag chain compatible	PUR black, 2 m, drag chain compatible