

**Flexible in the smallest space**

## BGL MINISLOT MINIATURIZED FORK SENSORS FROM BALLUFF

Balluff BGL fork sensors are known for precise object detection. Our comprehensive portfolio scores points with reliable solutions even for difficult and specialized applications. Now we are expanding our range to include particularly compact and versatile sensors for space-critical automation applications.

### Simple setup, reliable sensing

The new BGL MiniSlot fork sensors from Balluff can be used very flexibly with their different mounting and connection options. Their good visible beam makes them simple to place correctly and adjust. The sensors are fully potted, which

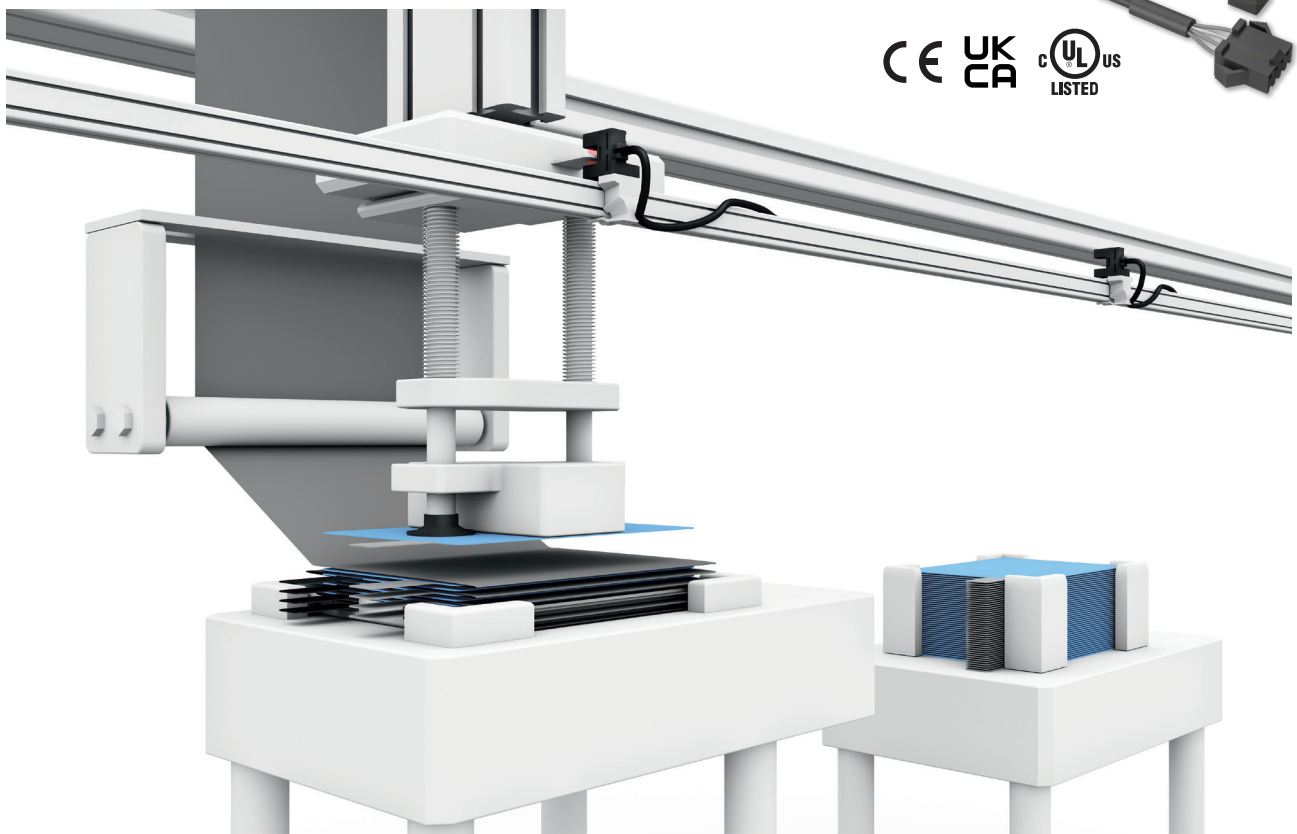
makes them resistant to vibrations, shocks and other environmental influences, and guarded with a IP64 protection rating. The bright LEDs also indicate the switching status and allow you to accurately read its diagnostics.

### Flexibility defined

With their particularly compact size, the new BGL require significantly less installation space than conventional fork sensors. In addition, six different designs and a wide variety of connection options make the sensors even more flexible to use in a wide range of applications.

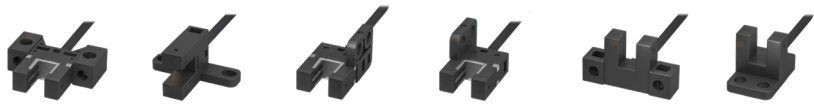
### Features

- Six different designs for flexible use
- Cost-effective, robust solution for space-critical applications
- Precise detection and high repeatability
- Status indication with bright LEDs
- Unified slot width 5 mm
- Easy connection with 4-pin M8 plug, flat connector or cable
- Switching frequency up to 3 kHz for fast processes



Positioning of battery cell components

BGL FORK SENSORS WITH DIFFERENT CONNECTION TYPES



M8 CONNECTOR, 4-PIN WITH 0.2 M PVC CABLE	PNP NO/NC	BGL006F	BGL006R	BGL006L	BGL006N	BGL006J	BGL006U
	NPN NO/NC	BGL006E	BGL006R	BGL006K	BGL006M	BGL006H	BGL006T
FLAT CONNECTOR, 4-PIN WITH 0.5 M PVC CABLE	PNP NO/NC	BGL006C	BGL0069	BGL0063	BGL0061	BGL0065	BGL0067
	NPN NO/NC	BGL006A	BGL0068	BGL0062	BGL0060	BGL0064	BGL0066
PVC CABLE, 1 M	PNP NO/NC	BGL005R	BGL005T	BGL005U	BGL005Y	BGL005W	BGL005Z
	NPN NO/NC	BGL005J	BGL005K	BGL005L	BGL005N	BGL005M	BGL005P
Series		K-Typ	T-Typ	F-Typ	R-Typ	L-Typ	Y-Typ
Slot width	5 mm						
Standard target/hysteresis	> 1.2 × 0.8 mm / < 0.05 mm						
Light type	LED infrared (855 nm)						
Operating voltage/output current max.	5...24 V DC/50 mA						
Switching frequency	min. 1 kHz						
Ambient temperature	-25...+55 °C						
IP rating	IP64						
Housing material	PBT						
Approvals/conformity	CE, UKCA, cULus						

BGL FORK SENSORS WITH CONNECTION TYPE CABLE



PVC CABLE, 1 M	PNP NO/NC	BGL005A	BGL005E	BGL005C	BGL005F	BGL005H
	NPN NO/NC	BGL0055	BGL0057	BGL0056	BGL0058	BGL0059
Series		K-Typ	U-Typ	L-Typ	F-Typ	R-Typ
Slot width	5 mm					
Standard target/hysteresis	> 1.2 × 0.8 mm / < 0.05 mm					
Light type	LED Infrared (855 nm)					
Operating voltage/output current max.	5...24 V DC/50 mA					
Switching frequency	min. 1 kHz					
Ambient temperature	-25...+55 °C					
IP rating	IP64					
Housing material	PBT					
Approvals/conformity	CE, UKCA, cULus					

CONNECTIVITY



	BCC0ML1	BCC0ML3	BCC03JW	BCC02N2
Connection 1	Flat connector, straight, 4-pin	Flat connector, straight, 4-pin	M8 female, straight, 4-pin, A-coded	M8 female, straight, 4-pin, A-coded
Connection 2			M12 male, straight, 4-pin, A-coded	
Cable	PVC, black, 2 m	PVC, black, 5 m	PUR, black, 2 m	PUR, black, 2 m