

BALLUFF

sensors worldwide

BGL/BWL Slot and Angle Sensors

... "the next generation": even more versatile and powerful



more added value



Slot and Angle Sensors

Specialists in various applications

BGL and BWL slot and angle sensors

Slot and angle sensors have become indispensable as simple and economical solutions in assembly and handling technology. Having the transmitter and receiver in the same housing saves complex installation and adjustment and provides assured processes.

These process-capable through-beam systems with red or laser light have established themselves in material flow control, feed equipment, for precise detail checking and in quality assurance

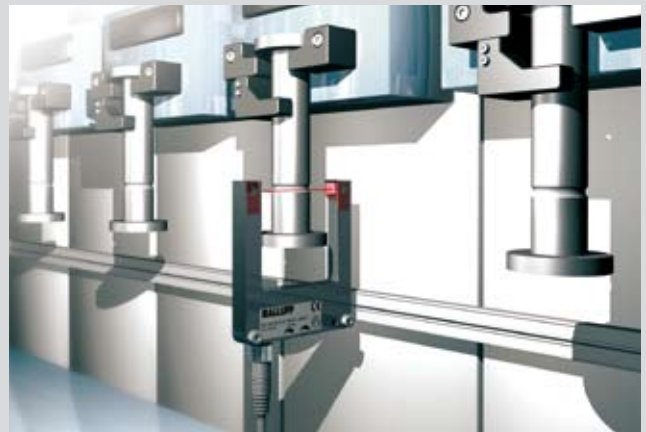
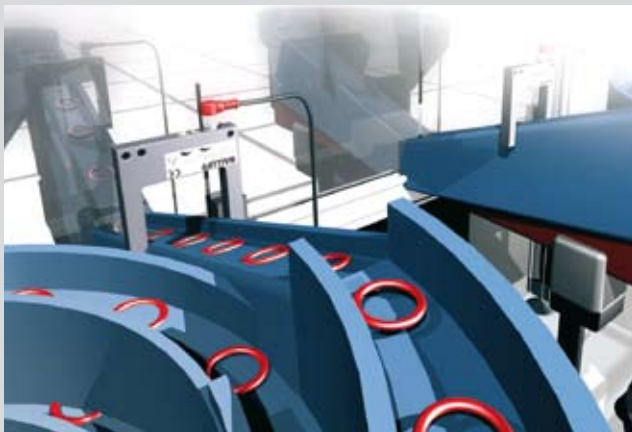
The benefits:

- **High process security, as transmitter and receiver can never go out of adjustment.**
- **Time savings thanks to the simplicity of installation and commissioning. No adjustment.**
- **Simply choose the best for the job: whether for object detection and positioning, small parts detection or contaminated environments, four different series can perform for you.**
- **Can also be used where space is tight. Many different sizes means that they can be accommodated in any situation.**



more added value





- even more powerful
- four product lines, specialist as transmitter and receiver cannot go out of adjustment
- various mounting and connection technology



Slot and Angle Sensors

Specialists in various applications



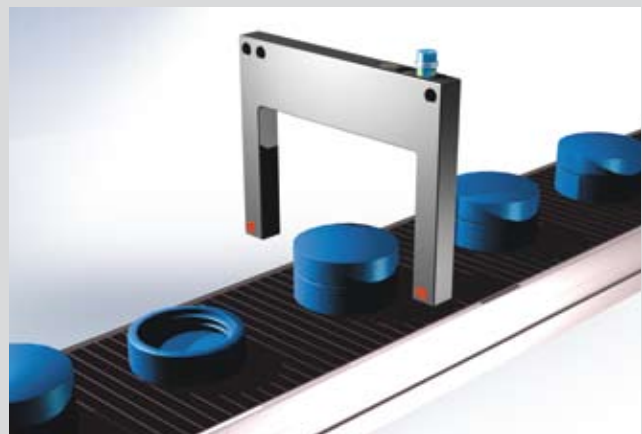
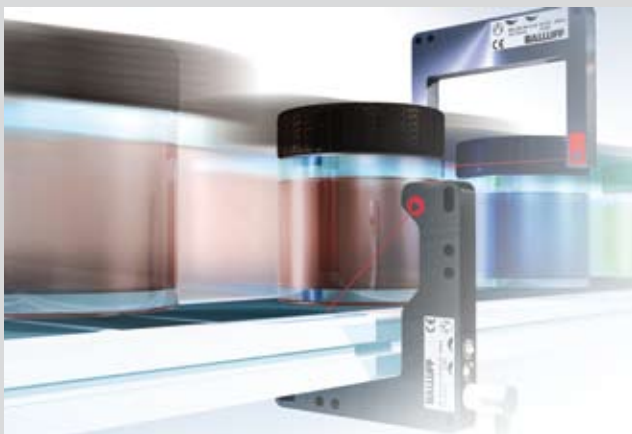
Series	 Red light	 PinPoint	 Infrared	 Laser
Application	reliable object detection	precise positioning	extreme reliability in dirty environments	excellent small parts detection
Slot sensors				
BGL				
Light type	Red light	Red light (homogeneous light spot)	Infrared light	Laser class 1
Switching frequency	1.5 kHz	5 kHz	2 kHz	5 kHz
Smallest detectable part	0.4 mm	0.3 mm	1 mm	0.08 mm
Repeatability	40 µm	30 µm	100 µm	9 µm
Function reserve	12	13	60	15
Switching output	PNP or NPN	PNP or NPN	PNP or NPN	PNP or NPN
Switching type	NO/NC selectable	NO/NC selectable	NO/NC selectable	NO/NC selectable

The ratings are related to BGL 50A-... and may differ for other sizes.

Angle sensors				
BWL				
Light type	Red light	Red light (homogeneous light spot)	Infrared light	Laser class 1
Switching frequency	1.5 kHz	5 kHz	2 kHz	5 kHz
Smallest detectable part	0.5 mm	0.4 mm	1.5 mm	0.12 mm
Repeatability	80 µm	40 µm	200 µm	15 µm
Function reserve	12	10	40	15
Switching output	PNP or NPN	PNP or NPN	PNP or NPN	PNP or NPN
Switching type	NO/NC selectable	NO/NC selectable	NO/NC selectable	NO/NC selectable

The ratings are related to BWL 6868D-... and may differ for other sizes.

Please visit www.balluff.com for more details




Slot and Angle Sensors

Series and accessories




Overview and ordering table for the most popular models

BGL slot sensors

Series	Slot opening	Connection	Description
 Red light PNP	30 mm	M8, 3-pin	BGL 30A-001-S49
	50 mm	M8, 3-pin	BGL 50A-001-S49
	80 mm	M8, 3-pin	BGL 80A-001-S49
 Laser PNP	30 mm	M8, 3-pin	BGL 30A-003-S49
	50 mm	M8, 3-pin	BGL 50A-003-S49
	80 mm	M8, 3-pin	BGL 80A-003-S49
 PinPoint PNP	30 mm	M8, 3-pin	BGL 30A-005-S49
	50 mm	M8, 3-pin	BGL 50A-005-S49
	80 mm	M8, 3-pin	BGL 80A-005-S49
 InfraRed PNP	30 mm	M8, 3-pin	BGL 30A-007-S49
	50 mm	M8, 3-pin	BGL 50A-007-S49
	80 mm	M8, 3-pin	BGL 80A-007-S49

BWL angle sensors

Series	Leg length	Connection	Description
 Red light PNP	54 mm	M8, 3-pin	BWL 5454D-R011-S49
	68 mm	M8, 3-pin	BWL 6868D-R011-S49
 Laser PNP	54 mm	M8, 3-pin	BWL 5454D-L011-S49
	68 mm	M8, 3-pin	BWL 6868D-L011-S49
 PinPoint PNP	54 mm	M8, 3-pin	BWL 5454D-R013-S49
	68 mm	M8, 3-pin	BWL 6868D-R013-S49
 InfraRed PNP	54 mm	M8, 3-pin	BWL 5454D-I011-S49
	68 mm	M8, 3-pin	BWL 6868D-I011-S49

Further variants and sizes may be found in our sensor catalog or at www.balluff.com

Mounting



For mounting to the Balluff assembly system
BMS BS-M-D12-0250-03
BMS BS-M-D12-0400-04

You can find out more about the wide object detection product range from our brochures, on CD-ROM, DVD-ROM or online. www.balluff.com

Connection



BKS-S 48

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