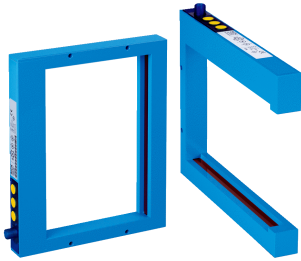# FLG

Installation and commissioning that couldn't be easier with very high levels of performance

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Sensor Intelligence.

Technical data overview

Version	Close / open (depending on type)
Beam separation	2 mm 4 mm (depending on type)
Detection height	120 mm ... 250 mm (depending on type)
Connection type	Male connector M12, 4-pin

Product description

The FLG (frame light grid) switching automation light grid is the innovative solution in which the sender and receiver are combined in one housing for the detection of small parts. The complicated individual adjustment of sender and receiver is now longer necessary. In dynamic operating mode, the FLG performs reject and removal control of workpieces in pressing and punching machines and also supports the packaging process. In static operating mode, it can be used for monitoring thread breakage. With a monitored area of 200 mm x 250 mm or 200 mm x 120 mm, it allows detection of small parts down to minimum dimensions of 2 mm over a large area.

At a glance

• Dynamic or static operating mode, switchable
• Forked- or frame-shaped housing, easy alignment
• Adjustable sensitivity
• Adjustable pushbutton lock
• Rugged metal housing
• Adjustable pulse lengthening
• Can be switched between Q and Qnot outputs
• Very fast response time

Your benefits

• Simple installation and alignment, as sender and receiver in one housing
• The adjustable pushbutton lock protects against unwanted changes to parameters and manipulation during operation
• Due to pulse stretching, the output signal is available longer on the control system
• Also available as an open version for simple integration into your application environment
• Large monitored area, therefore only one device required for monitoring small and large parts
• Using the sensitivity adjustment, it is possible to hide falling chips and only recognize objects that are relevant to your detection

Fields of application

• Machine tools (punching machines, pressing machines)
• Packaging machines
• Warehouse & distribution
• Production

Ordering information

Other models and accessories → www.sick.com/FLG

- **Device version:** close

Beam separation	Detection height	Detection area (W x H)	Type	Part no.
2 mm	120 mm	120 mm 200 mm [1]	FLG2-20012011	6049334
	180 mm	180 mm 200 mm [1]	FLG2-20018011	6049333
	250 mm	250 mm 200 mm [1]	FLG2-20025011	6049138
4 mm	120 mm	120 mm 200 mm	FLG4-20012011	6049135
	180 mm	180 mm 200 mm	FLG4-20018011	6049136
	250 mm	250 mm 200 mm	FLG4-20025011	6049137

[1] 2 mm MDO in limited detection area.

- **Device version:** open

Beam separation	Detection height	Detection area (W x H)	Type	Part no.
2 mm	120 mm	120 mm 200 mm [1]	FLG2-20012021	6050064
	180 mm	180 mm 200 mm [1]	FLG2-20018021	6050065
	250 mm	250 mm 200 mm [1]	FLG2-20025021	6050066
4 mm	120 mm	120 mm 200 mm	FLG4-20012021	6050067
	180 mm	180 mm 200 mm	FLG4-20018021	6050068
	250 mm	250 mm 200 mm	FLG4-20025021	6050069

[1] 2 mm MDO in limited detection area.

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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