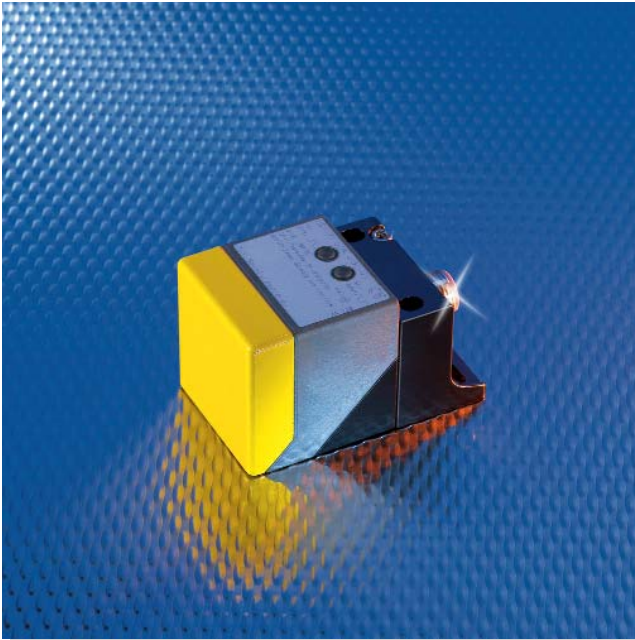


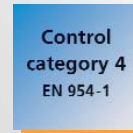


Non-contact fail-safe inductive sensor.



Direct detection of metal solves new applications.

- Suitable for operator and machine safety.
- Reliable function without specific coded target.
- For connection to safety PLCs, bus systems and relays.
- Certified to EN 954-1, category 4 PDF-M to EN 60947-5-3.
- Certified to IEC 62061, SILcl 3 corresponds to IEC 61508 SIL3.



Self-monitoring design without coded magnet or coded target.

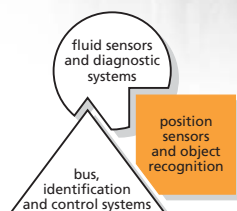
2 x PNP switching outputs (normally closed function)

Because of the window technology used, i.e. an enable zone monitored for target position and dwell time, a counterpart, e.g. a magnet or a special mechanical target is not required.

If the target is removed from the enable zone, the output circuits open. The fail-safe sensor can be connected to approved two-channel evaluation units without cross-monitoring that are suitable for positive-switching non-contact guards. In case of a fault, e.g. cross fault of the wires, the sensor passes into the defined safe state.



Application: Sliding door at a metal press.

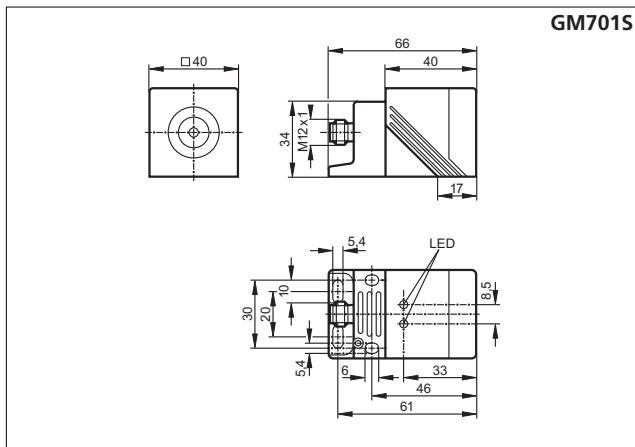


Applications are areas that require a non-contact reliable detection of a metal part.

Rectangular design [mm]	Enable zone [mm]	Protection rating	Response time on removal [ms]	Response time on approach [ms]	Order no.
40 x 40	10...15 nf*	IP 65 / IP 67	< 50	< 200	GM701S

*flush mountable in metal on one side

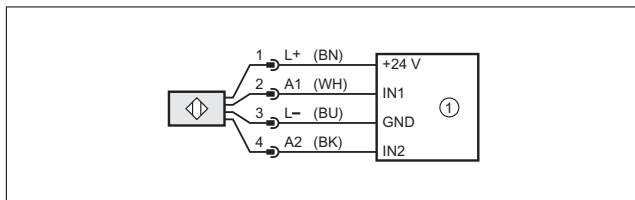
Dimensions



Technical data (extract)





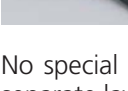
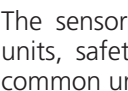
Approval category 4 (EN 954-1); PDF-M (EN 60947-5-3) Certified to IEC 62061, SILcl 3 Meets the SIL3 IEC 61508 requirements		
Operating voltage	[V]	24 DC (19.2...30 DC)
Current consumption	[mA]	< 15
Voltage drop	[V]	< 2.5 (100 mA)
Short-circuit protection		•
Reverse polarity protection		•
Operating temperature	[°C]	-25...70
Protection		IP 65 / IP 67, III
Operating mode		continuous operation (maintenance-free)
Outputs (OSSD): A1, A2		2 x PNP
Status indication	LED	output: 1 x yellow power: 1 x green

Wiring diagram GM701S



1) Evaluation unit or PLC
2 x PNP outputs, A1, A2

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 5 m black, PUR cable	EVC002
	M12 socket, 10 m black, PUR cable	EVC003
	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 5 m black, PUR cable	EVC005
	M12 socket, 10 m black, PUR cable	EVC006

No special demands such as shielding, twisted wires or separate laying, are placed on the socket.

The sensor is simply connected to existing evaluation units, safety controllers and safe bus systems using a common unscreened 4-pole cable.

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