



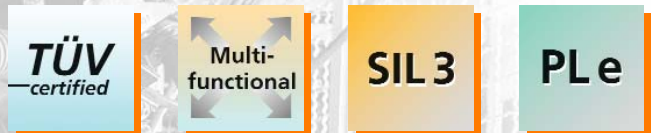
Position sensors and object recognition

Safety relay for the protection of operators and machinery.



Multifunctional with semiconductor outputs suitable for your applications.

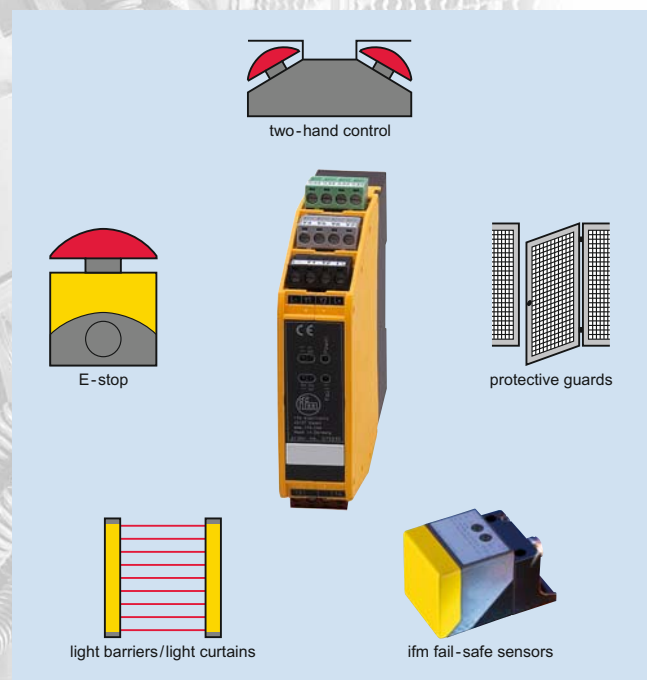
- E-stop with cross-fault monitoring and optional simultaneity monitoring.
- Connection of mechanical safety switches and fail-safe sensors.
- For clocked fail-safe sensors from ifm electronic.
- Two-hand control to EN 574, type IIIC, mechanical or electronic.
- Certified to IEC 61508, ISO 13849-1, EN 574 type IIIC.



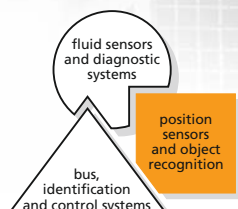
There are versatile options for connection to the safety relay. It performs monitoring tasks in safety applications in combination with different non-contact guards.

The evaluation of the signals from safety light barriers, safety light curtains, electronic fail-safe sensors or mechanical safety switches for protective guard contacts or electronic position sensors or mechanical position switches with or without cross-fault monitoring are only a few applications.

The safety relay has several multifunctional self-detecting and self-monitoring short-circuit protected inputs and outputs. The simultaneity monitoring of inputs and the functions "monitored" or "automatic start" can be set as an option. The operation in two-hand control to EN 574 type IIIC in combination with electronic sensors or mechanical switches is another advantage of the safety relay.



Options for connection to the G1503S

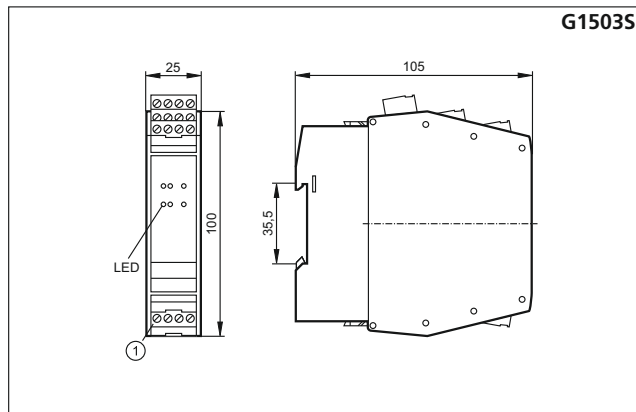


Safety relay with semiconductor outputs for mechanical switches or electronic sensors, e.g. for light barriers, light curtains, fail-safe sensors or two-hand control.

Type [mm]	Housing material	Enable current path	Signal current path	Feedback contacts	Order no.
100 x 25 x 105	PA	2 x semiconductor	1 x PNP	1	G1503S

You can find further information in the operating instructions.

Dimensions






1) terminal strip for screw terminals

Technical data (extract)

Certified to SIL 3 (IEC 61508), ISO 13849-1 two-hand control type IIC (EN 574)		
Operating voltage [V]	24 DC (19.2...30 DC)	
Short-circuit protection on input side		•
Reverse polarity protection on input side		•
Ambient temperature [°C]	-25...55	
Protection	IP 20	
Output current per safe semiconductor output (13, 14)	100 mA	
Electrical design: Output function	2 safe short-circuit proof semiconductor outputs (positive switching)	
Status indication	LED	1 x green 1 x red 4 x yellow

Fail-safe inductive sensors

Type	Description	Order no.
Threaded housing M12 x 1		
	Enable zone: 0.5...4 mm, nf	GF711S
Threaded housing M18 x 1		
	Enable zone: 1...8 mm, nf	GG711S
	Enable zone: 1...5 mm, f	GG712S

Type	Description	Order no.
Threaded housing M30 x 1.5		
	Enable zone: 6...12 mm, nf	GI701S
	Enable zone: 1...15 mm, nf	GI711S
	Enable zone: 1...10 mm, f	GI712S
Rectangular housing 40 x 40 mm		
	Enable zone: 10...15 mm, f / nf	GM701S
	Enable zone: 4...20 mm, f / nf	GM705S

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