

A first: full-metal housing offers robust safety

Fail-safe inductive sensors for industrial and mobile applications

- Robust full-metal housing
- Wide temperature range of -40...85°C
- Shock and vibration resistance
- TÜV-approved safety
- Safe state if target is absent







ifm - close to you!

Туре	Total length [mm]	Enable zone [mm]	Safe switch-off distance [mm]	Order no.
4-wire · M12 connector				
M12	60	01.5	>6	GF761S
M18	60	03.5	>10.5	GG761S
M30	65	06	>18	GI761S

Robust safety

Fail-safe sensors protect both man and machine. To date, ifm is the only supplier to market fail-safe inductive sensors in a robust full-metal housing in order to ensure maximum reliability even under extreme conditions. The full-metal housing offers optimum protection against permanent moisture. In addition, the sensors are well secured against shock and vibration loads that are particularly prevalent in mobile machines. Due to the extended temperature range of -40 to 85 °C, they can be used in freezing cold and summer heat, indoors and outdoors on vehicles and machines.

Applications

Typical applications for fail-safe sensors can be service lids or manholes, where they ensure that the machine cannot start until the lid is closed. On mobile machines such as mobile cranes or cherry pickers, safety sensors often monitor the outriggers that are extended to prevent the vehicle from tipping over.

Common technical data				
Operating voltage	[V DC]	932		
Housing materials	sensing face: stainless steel housing: stainless steel			
Output function	2x OSSD			
Safety-related sub-function	target is absent			
Ambient temperature ['		-4085		
Safety classification	ISO 13849-1: category 2, PL d IEC 61508: SIL 2, HFT=0, SC 2			
Protection rating	IP65, IP66, IP67, IP68, IP69K			

BEST FRIENDS

We reserve the right to make technical alterations without prior notice. • 11.2024 fine electronic gmbh • Friedrichstr. 1 • 45128 Essen



Safety relay
With potential-free relay
contacts



Controller for mobile applications
Safety controller with
CANopen Safety



Fail-safe inductive sensors
No special target required

