

ifm electronic



**Safety for
operators and machinery.**

Safety technology
www.ifm.com/gb/safe





For industrial applications

Be on the safe side.

Safe detection of metal, robust and wear-free: fail-safe inductive sensors.

Unlike conventional safety switches, the ifm safety sensors do not require a special counterpart. This means that direct detection of metallic workpiece carriers, for example, is no longer a problem.

ifm fail-safe sensors can be connected to any safety evaluation unit, i.e. to safety relays, programmable logic modules or safe PLCs.

Connection of the OSSDs (outputs) is the same as for light curtains. Using clocked sensors they can also be connected in series of up to 10 units.

Easy wiring is possible via standardised M12 connectors.



Fail-safe inductive sensors

Without counterpart:

Without a special target you can solve applications such as position detection, here in a filling system.

Safe up to the highest class:

SILcl 3 / SILcl 2 to IEC 62061, SIL 3 / SIL 2 to IEC 61508, PL e / PL d with category 2 and 4 to ISO 13849. M12, M18, M30 and rectangular housings.

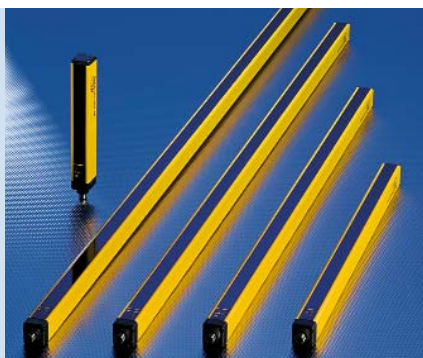
Detection without contact:

Protection of a hazardous area via two corner mirrors with robust bases for direct floor mounting.



Finger, hand and body protection:

Certificates to IEC 61496 type 4 / type 2, IEC 62061 SIL 3 / SIL 2, ISO 13849 PL e / PL d. Ranges from 6...60 m, protection IP 65 / IP 67 / IP 69K.



Safety light curtains



With safety system solutions from ifm electronic.

The standards:

The new safety standards IEC 62061 (SIL) and ISO 13849 (PL) are certified by TÜV.

The sensors:

Inductive and optical safety sensors meet the requirements SIL 2 / PL d to SIL 3 / PL e.

The evaluation:

Evaluation and diagnosis with SIL 3 / PL e via safety relays or easily via AS-i Safety at Work.

Drag & drop:

You can download SISTEMA libraries for all products to easily calculate your required safety level.

Support:

Multimedia e-learning modules provide you with easy and practice-oriented support for installation and connection.



Without specific counterpart:

Fail-safe inductive sensors reliably switch on any steel target.

Over more than 15 years ifm electronic has gained extensive know-how in safety technology. Though not a long-established heavyweight in the safety industry, ifm scores all the more with its innovative and practice-oriented solutions. This does not come as a surprise given that ifm has been one of the market leaders in industrial automation technology for more than 40 years.

You can, for example, connect inductive and optical safety sensors easily to any safety relay or PLC. All safety requirements, from the lowest to the highest level, SIL as well as PL, are met over the entire product range.

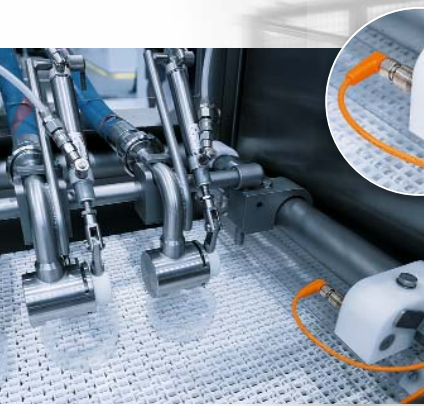
The functional safety of ifm technology helps you to minimise the risk to your plant or machinery to a defined residual risk.

Do you have questions on machinery directives or relevant safety standards? Feel free to contact us! Fully in line with our slogan "close to you" we or one of our system partners will be glad to answer your questions.

You will always be on the safe side with ifm in all aspects of safety.

Extra slim:
Safety light curtains require little space.





Compact, slim and reliable: safety light curtains.

Light curtains from ifm electronic are distinguished by a slim design and long ranges.

Programming is not necessary, the configuration is done via the pin connection. The ranges are adjustable (low or high power). Monitored start and EDM (External Device Monitoring) feedback monitoring can be selected.

Installation without dead band on one side is possible. The continuous T-slot on the back of the unit allows for flexible installation. Suitable mounting accessories facilitate adjustment. Connection via inexpensive M12 connection cables.

Light curtains with a protective tube for demanding environmental conditions offer protection IP 69K and resist temperatures up to -40 °C.



Less wiring – less cost: AS-i Safety at Work.

With one million safety relays installed AS-Interface Safety at Work is one of the leading safety systems in safety technology. By means of AS-Interface Safety at Work the user can implement cost-effective safety solutions from the point of view of the EN ISO 13849 standard – for simple as well as for highly-complex systems with many logic links.

With AS-Interface Safety at Work the user can implement cost-effective safety solutions.

Combined safety:
Safety relay with e-stop, cross-fault monitoring and optional simultaneity monitoring. Operation with two-hand control to EN 574, type IIIC, mechanical or electronic.





All AS-i:
AS-i safety monitors replace conventional evaluation units.



Safe or not safe?
With AS-i Safety at Work both are possible. Signals from standard units and safe components are transmitted via a common cable.



AS-Interface Safety at Work

Certified to IEC 61508, ISO 13849-1, EN 574 type III C. DIN rail housing with Combicon connector for quick wiring.



Safety relays

Multifunctional for your safety solutions: safety relays.

ifm safety relays for the protection of operators and machinery are available with relay or semiconductor outputs with different connection possibilities. You can connect magnetic, inductive or photoelectric sensors as well as mechanical sensors. Switch-off delays can be set and ensure optimal adjustment to the application.



visit our website:

www.ifm.com

Overview ifm product range:

■ **Position sensors and object recognition**

Inductive sensors
Capacitive sensors
Magnetic sensors, cylinder sensors
Safety technology
Valve sensors
Photoelectric sensors
Object recognition
Encoders
Evaluation systems, power supplies
Connection technology

● **Fluid sensors and diagnostic systems**

Level sensors
Flow sensors
Pressure sensors
Temperature sensors
Diagnostic systems
Evaluation systems, power supplies
Connection technology

▲ **Bus systems**

Bus system AS-Interface
Power supplies
Connection technology

▲ **Identification systems**

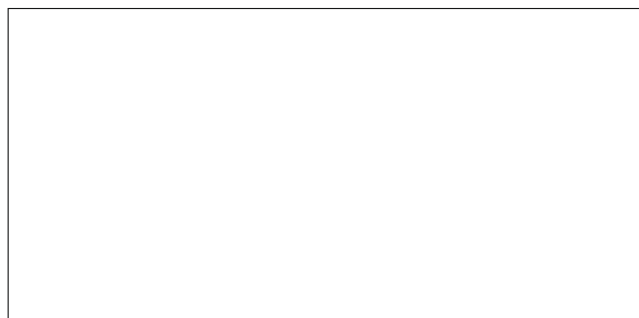
Multicode reading systems
RF-identification systems
Power supplies
Connection technology

▲ **Control systems**

Control systems for mobile vehicles
Connection technology

ifm electronic – close to you!

Over 70 locations worldwide – at a glance at www.ifm.com



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