



**Go ifmonline!**

Inform, select, order  
in the ifm webshop

**ifm.com**



# ifmpressions

The ifm group of companies – People, ideas, solutions



› We need more suppliers like ifm. ‹

Werner Gmür,  
SIP Elektroanlagen GmbH,  
Germany

› I am very satisfied with ifm's support. ‹

Benedikt Klump,  
mechatronics engineer,  
design department,  
GTA Maschinensysteme GmbH,  
Germany

› ifm's professional service and reliable quality mean strong confidence and support for us. Cooperation with such global company can also promote our internationalization. ‹

Tan Shili,  
President of Shanghai Kelai,  
Mechatronics Engineering Co., Ltd.,  
China

› We were facing a big challenge only a few companies worldwide would have solved. ‹

Michael Liu,  
Pasco Systems,  
USA





# ifmternational



Production site Tettngang close to Lake Constance.



Corporate headquarters in Essen.



ifm efector subsidiary USA, in Malvern PA.



International development and production sites in Sibiu, Romania (left) and Singapore.

More than 150,000 buying customers worldwide speak for themselves – and also for us. From Europe to North and South America as well as from Africa to Australia: The family-run ifm group of companies has subsidiaries, development and production sites in more than 70 countries. Our excellent sales and service team of about 1,450 employees offers the best advice to our customers in every country. We optimise your production and give you valuable competitive advantages. You can for example buy our products in Germany for your production site in South America and benefit from ifm support on site. In Europe alone we are represented in 25 countries. Cooperate with us, one of the market leaders in automation technology. You'll be glad you did!



Employees: over 6,500

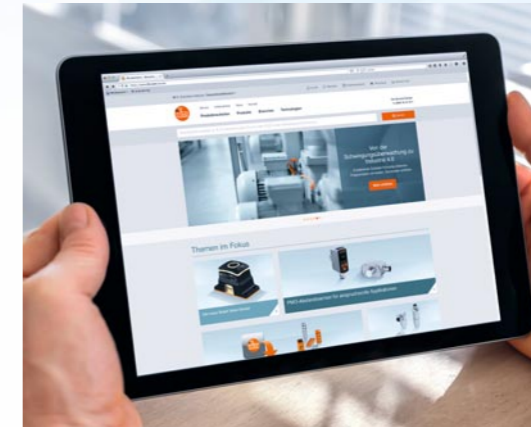


Turnover: 880 m euros





# ifminternational



The central warehouse in Essen ensures that your order is promptly and suitably packed for transport so that the product reaches you in the quality it had when it passed our final tests.



*"ifm – close to you!" This slogan is a promise. As regards "close to you", you can take us at our word. Directly on site, on the phone, by chat or via email. Personal advice with passion and application know-how comes first. You can also find all details of your product quickly and easily in the modern ifm webshop. You can check delivery times in real time, create your favourites, see prices and much more. Our clearly structured product range guarantees quick orientation on all devices such as PC, laptop, tablet or smartphone. We have established one of the most modern and efficient logistic centres worldwide to guarantee fast delivery of ordered products.*



Everything at a glance – Your favourites: [ifm.com](http://ifm.com)



Check delivery times: [ifm.com](http://ifm.com)



Go **ifmonline!** Order 24/7: [ifm.com](http://ifm.com)



Competent technical advice







> Product safety is most important for the production of food. This is why we have the highest demands on cleanliness and hygiene achieved by intensive cleaning and disinfection. Full-metal sensors from ifm such as the IFT in connection with the EVT sockets perfectly meet these high demands. <

*Dieter Geiken,  
Head of Electronics Workshop,  
Molkerei Rucker GmbH,  
Germany*

> The O6 has no problems with moisture and wetness, it always works properly. For the cables we only use the ecolink sockets from ifm. The price / performance ratio is unbeatable compared to competitors. <

*Jens Hoffmann, Managing director,  
BOOS-Reinigungsanlagenbau GmbH,  
Germany*



> ifm delivers reliable products for all safety applications. <

*Benedikt Klump,  
mechatronics engineer,  
design department,  
GTA Maschinensysteme GmbH,  
Germany*





# ifmdividual

*Under harsh conditions in steel processing or in sensitive industries such as the food industry, even under permanently changing weather conditions such as in wind turbines at sea or in mobile machines: ifm's competence is high in every industry, which contributes considerably to your company's success. For almost 50 years, our company's success has been based, among others, on early identification of specific industry requirements and on offering perfectly suited and reliable solutions via global key industries specialists. Since ifm's foundation, outstanding application know-how for each industry has developed, giving you decisive support for efficient automation.*



› After just a few weeks we had first successes when an imminent plant downtime was detected by the vibration diagnostics on the basis of a mechanical disturbance value. We could make a repair in time thus preventing a plant failure. ‹

Gerhard Simon,  
Hassia Mineralquellen  
GmbH & Co. KG,  
Germany



*Cleaning process or potentially explosive atmosphere, weld spatter, vibration, oil, dust or moisture – ifm products function reliably in all operating conditions.*







› ifm is a German company having a long history and product quality. We are very glad to communicate with their specialized technical sales team. They always provide us with fast and specialized support to overcome many tricky problems for us. ‹

*Zhang Qin, Director of Pretreatment, Equipment Department, Bright Dairy, China*

› Since 1994 ifm has been a reliable supplier. We needed an experienced partner with a vast product portfolio covering state-of-the-art sensors and detection systems to meet our technical regulations and quality requirements. ‹

*Gianluca Stella, Ramaplast S.p.A., Italy*

› Thanks to our 15-year cooperation with ifm, we from ACTEMIUM Concarneau could implement more than 61 gateways in a wastewater treatment system with our know-how of AS-i networks and AS-i SAFE for food applications. ifm's international technical support allowed us to operate in numerous industries and countries. ‹

*Eric BIHOUES, responsible for automation, industrial computing and robotics, ACTEMIUM Concarneau, VINCI EnergiesGroupe, France*





# ifmnovation

*Exact position detection, quick and perfect condition detection. Optimum mastering of standard applications and efficient implementation of complicated production and control processes. For all your requirements we have the suitable products and solutions – for your automation demands of tomorrow.*



› ifm manufactures products you really need. ‹  
Wilko Willuhn,  
INDAG Maschinenbau GmbH,  
Germany



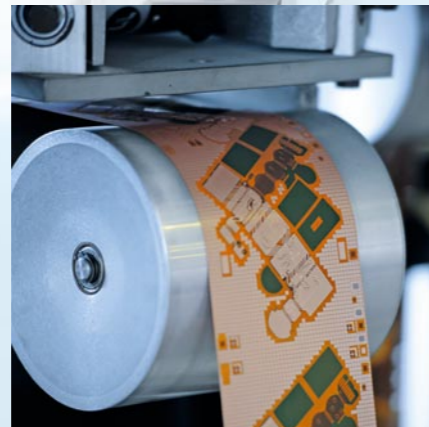


# ifmnovation

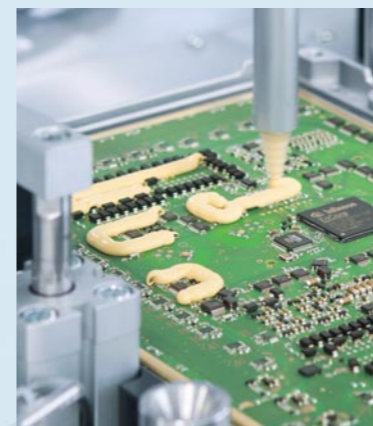
*"High product quality and accurate technical data are unimpeachable values of ifm." This principle from ifm's corporate philosophy is lived by all employees with passion. Around the world all factories have uniform quality standards and safety processes – in Germany alone about 70 % of all sensors and systems are manufactured. In all locations this is based on quality management to ISO 9001. This allows us to offer a 5-year warranty for all our high-quality and long-life catalogue products. Demanding customers from all over the world appreciate it.*



*Ingress-resistant under extreme conditions: test for the IP 69K protection rating.*



*Complex circuitry in very restricted space: Back in 1980, ifm started to use the innovative film technology which has been continuously developing since then.*



*A high degree of automation and comprehensive quality controls guarantee continuously high product quality.*



*ifm's own environment management system*





# ifmification

› What impressed me most with ifm: They did not ask about possible quantities but promised comprehensive project support. ‹

Rolf Oschatz,  
Gritzke Lasertechnik,  
Germany

› The cooperation with ifm sustainably improved the reliability of condition-based maintenance. ‹

Hans-Joachim Schaller,  
Technical Service Planned Maintenance,  
Pirelli Deutschland GmbH, plant Höchst,  
Germany

› My experience with ifm has always been positive – what distinguishes ifm's employees is great technical competence in combination with flexibility and reliability. ‹

Michael Rohe,  
NOBAMED Paul Danz AG,  
Germany

› An ifm customer for more than 40 years: We could work well with Mr Marhofer, with his technical departments and his production. The most important thing was that existing problems were solved and that this finally led to success. ‹

Jens F. Schulz,  
former Rasselstein GmbH,  
Germany

› We have a great business relationship. Business is business but they are really good people. ‹

Dale Koger,  
JBT Corporation,  
USA







# ifmtification

*It is no surprise that ifm's seniority is above average (partly more than 45 years) and that the employees' fluctuation is low, in Germany and abroad. Without satisfied employees in a good working atmosphere no sustainable company success is possible. In all corporate sectors such as production, sales, service, research and development as well as administration, many perspectives are offered. Everyone can use his talents in an optimum way. At present more than 110 trainees with and without accompanying studies prepare their professional career with ifm.*



**TOP**  
NATIONALER  
ARBEITGEBER  
**2018**

**FOCUS**  
DEUTSCHLANDS  
BESTE ARBEITGEBER  
IM VERGLEICH  
IN KOOPERATION MIT  
kununu | statista  
FOCUS-BUSINESS  
01 | 2018

**AUSGEZEICHNETER  
AUSBILDUNGSBETRIEB  
AZUBI-GEPRÜFT  
2018**

Prädikat  
Familienbewusstes  
Unternehmen 2014

*The founder generation has already defined principles in a philosophy which is today translated into 16 languages and given to every employee. In it we encourage our ethic corporate culture and responsible and sustainable action – even in a global context.*

*Job perspectives and career opportunities are to set benchmarks and ensure a viable future. All the better that ifm regularly wins awards for their achievements.*



Find  
interesting jobs:  
[jobs.ifm.com](http://jobs.ifm.com)





# ifmtelligence

› We have already implemented many projects with the modular AS-Interface system and had good experience with it. We have never had any problems with the control of our feed factory. ‹

*ForFarmers Hendrix,  
Netherlands*

› Using condition monitoring from ifm on machine tools we want to achieve more predictable and efficient maintenance. ‹

*Roland Bernhard,  
Manager of Maintenance Planning TF-I  
Division Production TF,  
MTU Friedrichshafen GmbH,  
Germany*

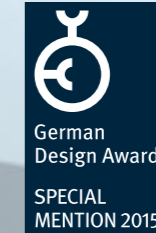
› ifm supports us considerably with ongoing plant and process optimisation. ‹

*Stefan Aumann,  
European Petcare Maintenance Manager,  
Mars GmbH,  
Germany*

› Triowin's success relies on our persistent assurance for product quality: We select the best suppliers and manufacture the best equipment to serve our best customers, and ifm can always provide us with appropriate services and superb quality products rapidly. We feel very satisfied to cooperate with ifm! ‹

*Zhang Zhigang,  
Director of Automatic Control Department,  
Shanghai Triowin,  
China*





Always one step ahead – that is ifm's target. This is the only way to achieve efficient production and competitive advantages. Innovative products shall enable our partners to respond to changed markets in an optimum and flexible way and, even better, initiate modifications themselves. More than 820 employees in research and development worldwide are working on it every day. More than 750 patents of our own for future requirements speak a clear language. There is a close cooperation with universities and research bodies as well. ifm has already won many awards for the development and perfecting of TOP technologies as well as TOP products. One example is the Hermes Award, one of the highest technology awards of 100,000 euros worldwide, for the "efector pmd" distance sensor. ifm was also decisive in developing the IO-Link communication standard which forms the basis of Industry 4.0.



Heavy weight in logistics:  
3D sensors measure packages to calculate the dimensional weight.



Nothing escapes the photoelectric sensors:  
Small, slim and flat components, even with dark or shiny surfaces, are detected.



For a safe start:  
Precise docking to the aircraft with ifm camera systems.



> It's a brave new world. <  
Barack Obama,  
former President of  
the United States at the  
ifm stand in  
Hannover 2016



750 patents  
of our own



# ifm industry 4.0



› Thanks to the cooperation with ifm IVECO is ideally prepared for Industry 4.0. ‹  
*Giuseppe Sotira, Bodyshop  
Technical Engineering IVECO SPA,  
Italy*





# ifm industry 4.0

Industry 4.0 is not only a keyword, but will change production and automation decisively – on all levels of the product process. Decisive is that the intelligent sensors are interconnected and connected to the machine control via IO-Link. Thanks to the IO-Link technology, the sensor data for the fully automatic production and analysis is available as digital data and also allows condition-based maintenance. ifm is a pioneer in this area and offers the most extensive product range in this area worldwide. The respective ifm software allows the bidirectional data exchange among a high number of different interfaces and automatically gives an overview of the complete plant. Moreover, direct transfer to the ERP system is also possible, bypassing the plc. We accompany you on your way towards your future at any time, efficiently and safely, not only for today's but also for tomorrow's requirements.



Machine infrastructure



SAP® Certified  
Integration with Cloud Solutions



IT infrastructure

› We can access the plant remotely via our VPN tunnel, for example: What are the sensor settings? Is there a problem? In short: Worldwide access down to the sensor. This is really great. ‹

Hendrik Blatz,  
Maschinenfabrik Gustav Eirich  
GmbH & Co KG,  
Germany





## Position sensors

- Inductive sensors*
- Capacitive sensors*
- Magnetic sensors*
- Cylinder sensors*
- Ultrasonic sensors*
- Photoelectric sensors*
- Optical fork sensors / optical angle sensors*
- Laser sensors*
- Distance sensors*
- Fibre optic sensors*
- Photoelectric sensors for specific applications*
- Touch sensors*
- Feedback systems for valves and valve actuators*
- Switching amplifiers*



## Sensors for motion control

- Encoders*
- Speed sensors*
- Inclination sensors*
- Systems for the evaluation of standard signals*
- Systems for signal conversion*
- Systems for signalling and indication*
- Systems for pulse evaluation*
- Sensors for conveyor belt monitoring*



## Industrial imaging

- Vision sensors*
- 3D sensors*
- 3D cameras*
- Illumination*



## Safety technology

- Fail-safe inductive sensors*
- Safety light curtains*
- Safety light grids*
- Safety relays*
- Safety controllers*
- AS-Interface Safety at Work*



## Process sensors

- Pressure sensors*
- Vacuum sensors*
- Flow sensors / flow meters*
- Level sensors*
- Temperature sensors*
- Signal evaluation systems*
- Feedback systems for valves and valve actuators*



## Industrial communication

- AS-Interface masters*
- AS-Interface power supplies and monitors*
- AS-Interface I/O modules*
- AS-Interface systems and sensors*
- AS-Interface Safety at Work*
- AS-Interface for hazardous areas*
- Fieldbus components*
- Apps*
- AS-Interface wiring technology*



## IO-Link

- IO-Link masters*
- IO-Link modules*
- IO-Link devices*
- IO-Link position sensors*
- IO-Link sensors for motion control*
- IO-Link process sensors*
- IO-Link software*
- IO-Link accessories / connection technology*



## Identification systems

- RFID 125 kHz*
- RFID 13.56 MHz*
- RFID UHF*
- 1D/2D code readers*



## Condition monitoring systems

- Systems for vibration monitoring and diagnostics*
- Flow meters for compressed air*
- Flow meters for water consumption*
- Systems for oil quality monitoring*
- Systems for pulse evaluation*
- Systems for the evaluation of standard signals*
- Systems for signalling and indication*
- Systems for signal conversion*



## Systems for mobile machines

- Controllers*
- I/O modules*
- Devices for operation and monitoring tasks*
- Cameras for mobile applications*
- Diagnostic and service units*
- Signal converters*
- Sensors for mobile machines*



## Connection technology

- Industrial applications / Factory automation*
- Use in applications with machine tools, coolants and lubricants*
- For use in wet areas and in the food industry*
- Use in welding areas*
- Use in mobile and robust applications*
- Use in hazardous areas*



## Software

- Parameter setting and operating software*
- OPC server software*
- Programming software*
- Apps*
- Condition monitoring and energy consumption analysis*



**Go ifm online!**  
ifm.com



### Power supplies

- 24 V DC power supplies
- AS-Interface power supplies
- Switching amplifier
- Electronic 24 V DC fuses

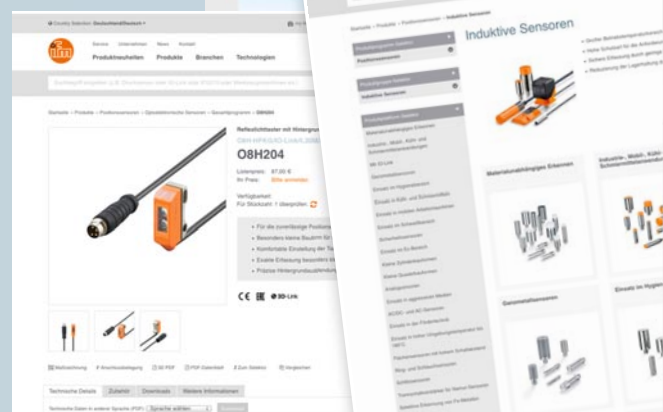
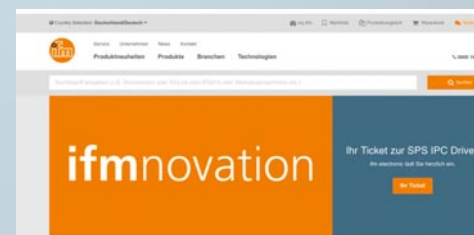


### Accessories

- Accessories for position sensors
- Accessories for magnetic sensors
- Accessories for cylinder sensors
- Accessories for photoelectric sensors
- Accessories for laser sensors
- Accessories for distance sensors
- Accessories for fibre optics
- Accessories for touch sensors
- Accessories for feedback systems
- Accessories for encoders
- Accessories for vision sensors
- Accessories for 3D sensors and cameras
- Accessories for safety light grids and curtains
- Accessories for process sensors
- Accessories for AS-Interface
- Accessories for identification systems
- Accessories for vibration monitoring systems
- Accessories for control systems
- Protective brackets
- Spare parts



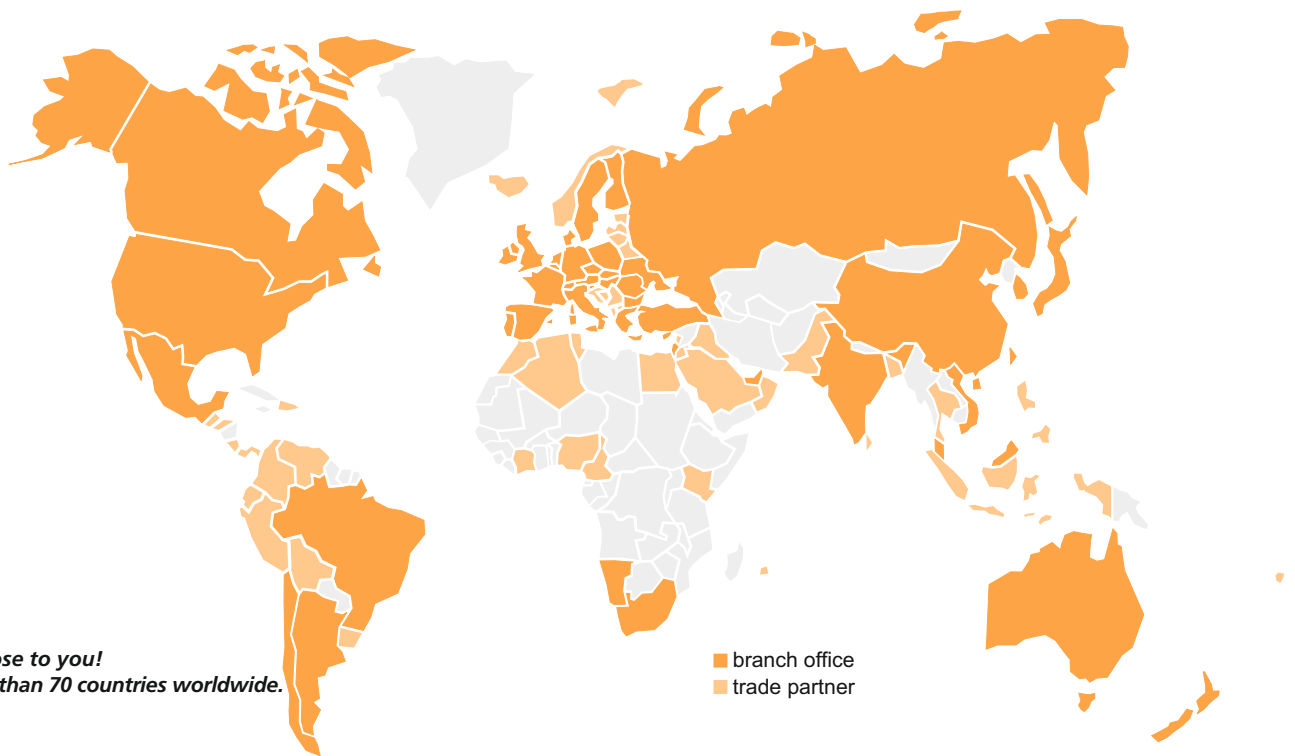
**The automation world online**  
**All information at a glance**  
**Quick information**  
**Clear selection**  
**Check delivery times**  
**Order easily**



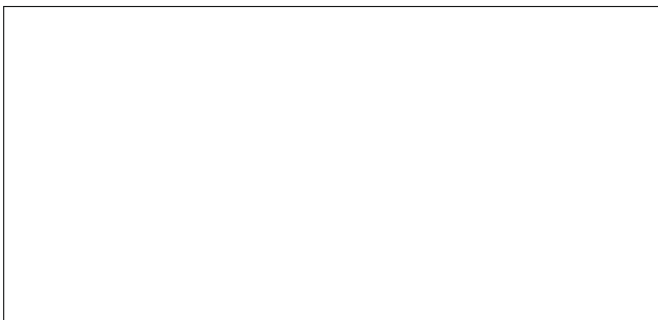


# ifmformation

**ifm** – close to you!



*ifm – close to you!*  
*In more than 70 countries worldwide.*



ifm electronic gmbh  
Friedrichstraße 1  
45128 Essen  
Tel. +49 / 201 / 24 22-0  
Fax +49 / 201 / 24 22-1200  
E-mail [info@ifm.com](mailto:info@ifm.com)