Dear Readers

With ifm electronic there is a reliable partner on your side. Quality, innovations and close customer contact are our strong points and an integral part of our philosophy.

We are present in over 70 countries; therefore we can provide solutions to 90,000 customers in machine construction and other industries. Our intention: increasing efficiency and cost-effectiveness of your plant with our sensors and systems.

In the article "New on the market", we will present our latest products. You can also get information about our innovations directly from your customer consultant or from our website: www.ifm.com.

Enjoy reading.

Dr. Thomas May
Managing Director

ifm electronic – close to you!

New on the market

ifm's innovations - of high-quality, robust and user-friendly

We provide everything: from an inductive full-metal sensor to a compact and low-cost mini controller. An extensive range of accessories is available to complete your overall system. Our large range of products will convince you.

Below is a brief overview of our product innovations:

Position sensors
- certified safety light curtains with IP 69K for extreme conditions
- resistant, inductive 2-wire full-metal sensors with non-stick coating
- high-quality inductive NPN full-metal sensors in the M8 to M30 designs

Fluid sensors
- hygienic point level sensor of type "LMT" with complementary output, makes adjustment to the medium unnecessary
- powerful IO-Link Memory Plug to save and copy sensor data fast and easily
- electronic manometer of the "PG" series, now also with G1 process connection

Control technology for mobile vehicles
- PDM360 NG process and dialogue module for outdoor applications with scratch-resistant, high-resolution 7" TFT colour display
- ecomatmobile Basic – the modular controller concept for mobile vehicles

Connection technology
- the well-tried and robust ecolink series for the most difficult applications in hygienic and wet areas now also with M8 connection

Our product innovations at a glance:
www.ifm.com/uk/news021101
New level sensor, ignores foam and build up

Point level sensor for hygienic applications

Especially in the food industry deposits and foam often make reliable limit detection difficult. In contrast to vibration sensors such as the vibrating tuning-fork probes, the LMT point level sensor suppresses these undesired side effects - even for viscous and sticky media such as ketchup.

The LMT sensor can reliably provide full or empty signals of tanks and ensure run-dry protection of pumps.

The smooth surface of the PEEK tip does not allow dirt or medium residue to adhere.

Furthermore the high-quality materials such as stainless steel and PEEK meet all requirements for hygienic areas. Flush sealing is ensured by pressing the PEEK tip onto the metal sealing edge of the adapter.

This avoids dead bands and contamination. Approvals such as EHEDG and 3A certify the food conformity.

For further information please click here: www.ifm.com/uk/news021102

Quality requirements as in the pharmaceutical industry

ifm photocells call inspector

There is less and less room for modern industrial plant. Space is money. At the same time the requirements for higher quality control, shortened retro-fitting times and compact modular design are increasing.

Weber Systemtechnik in Wetzlar being a competent industrial partner for automation and quality assurance pursue exactly this goal.

The challenge is extra special when the partner is Bayer CropScience from Frankfurt.

Bayer CropScience AG, a subgroup of Bayer AG, is a leading company in the fields of crop science, seeds, plant biotechnology and non agricultural pest-control. The main objective is to protect crops against pests and diseases and at the same time to produce high yields of the best quality in a sustainable and efficient way.

This is fully in line with the philosophy of the Bayer group: “Science For A Better Life”.

Non-stop quality assurance

No product from Bayer CropScience leaves the filling stations without final quality control and paperless goods-out documentation.

Before the canisters filled-up with the pesticides are packed into cardboard boxes, there is an all-around inspection at the compact camera documentation station - constructed and developed by Weber Systemtechnik. Five cameras document a perfect overall view of the canister bodies. Has the correct label been applied? Has the print been applied correctly? Has the label been laminated without any creases? Is the cap OK and in its correct position? Are the date codes present?

Since the high-performance cameras and lighting systems do not require much space, there is only little space left for the installation of the photocells.

Dynamic measurement at 1,000 Hz

The photocells of the O7 series were ideal to be installed in the camera documentation station. They are small, compact and precise and adapt to the overall performance of a slim, one-line packing line to do their job efficiently.

The sensors of type O7P200 - retro-reflective sensor with prismatic reflector - reliably detect the position of the canisters and switch the lighting and the cameras via the trigger controller.

The quality control and paperless goods-out documentation as a space-saving final-inspection module could thus be integrated into the existing production line at Bayer CropScience without any problems.

For more information please see: www.ifm.com/uk/news021103
Often the best solution is very simple

The new control concept ecomatmobile Basic

Control tasks are increasing in many mobile applications. High-performance controllers are in demand. But what about those users who are looking for a low-cost mini controller that is both for mobile applications and programmable and ideally even of modular design? What is available on the market? So far not much.

The new control solution ecomatmobile Basic.

ifm electronic did comprehensive market research two years ago and started developing a mini controller for mobile applications. The result should be a modular and cost-optimised control system that is easy to mount and to operate.

Besides pure control functions it should also provide solutions for wiring and protection. The result in the year 2010 is called: ecomatmobile Basic.

What is ecomatmobile Basic?
The control system consists of three perfectly adapted modules: BasicRelay, BasicController and BasicDisplay.

The BasicRelay
The easily expandable relay and fuse module finally brings order to your wiring. It is wired via a common power rail and additional star points. The BasicRelay features locations for simple ISO and logic relays. No other external terminals are required for the installation.

Conclusion: A small, decentralised “control room” for easy applications.

The BasicController
The compact, flexible control module replaces the conventional relay logic and also demanding process controllers. The connection of sensors and actuators is made without further external wiring.

Interfaces for the connection of the BasicDisplays, the BasicRelays or another BasicController are available. The control module supports all common CoDeSys programming languages.

Conclusion: low-cost mini controller for easy up to complex control tasks.

The BasicDisplay
The high-resolution colour display with its unique visualisation concept replaces the conventional operation of the machine.

The display can be fixed directly at the operating panel or in the housing cover.

Communication is done directly to the controller and to the standardised J1939 engine interface.

Conclusion: A universal dialogue module for an intuitive handling concept.

Integrate, activate, operate - that is ecomatmobile Basic.

For more information please see: www.ifm.com/uk/news021104
TIP

CAD construction data

For some years now ifm electronic gmbh has been working together with the company CADENAS GmbH to be able to provide its customers with CAD construction data in as many formats as possible. Using CADENAS' online service "PARTserver.de" neutral and native 3D and 2D geometries can be provided. The registered user is sent the requested data by e-mail. The geometries of the construction data can be transferred to any common CAD system.

In combination with the CATIA® construction program, the user of PARTserver creates, for example, a real CATIA® model that he can use for further processing.

CADENAS has awarded the "Silver quality seal" for the quality of ifm’s electronic product catalogue.

For more information and notes please see:
www.ifm.com/uk/news021106

PRODUCTS

M8 ecolink connectors

Now also for hygienic and wet areas

ifm electronic offers standardised M8 connectors with protection ratings IP 67 / 68 / 69K. The high-quality materials meet the particular requirements of the hygienic and wet areas:

High-grade stainless steel coupling nut, EPDM seal, silicone-free PVC cable and gold-plated contacts. Like all connectors of the ecolink series, the M8 version also has an innovative profiled sealing ring that prevents excessive pressing but still ensures maximum ingress resistance. The patented saw-tooth type vibration protection ensures that the coupling nut does not become loose unintentionally in case of shock and vibration. Manual tightening of the nut is sufficient to ensure safe connection. See for yourself!

www.ifm.com/uk/news021107

For the first time all advantages of the ecolink series can also be used for standardised M8 connections (EN61076).

Registration & deregistration:

The choice is yours

Newsletter in different variants

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http://www.ifm.com/uk/newsletter