



FACTORY AUTOMATION

MONITORING SYSTEM FOR CLAMPING APPLICATIONS

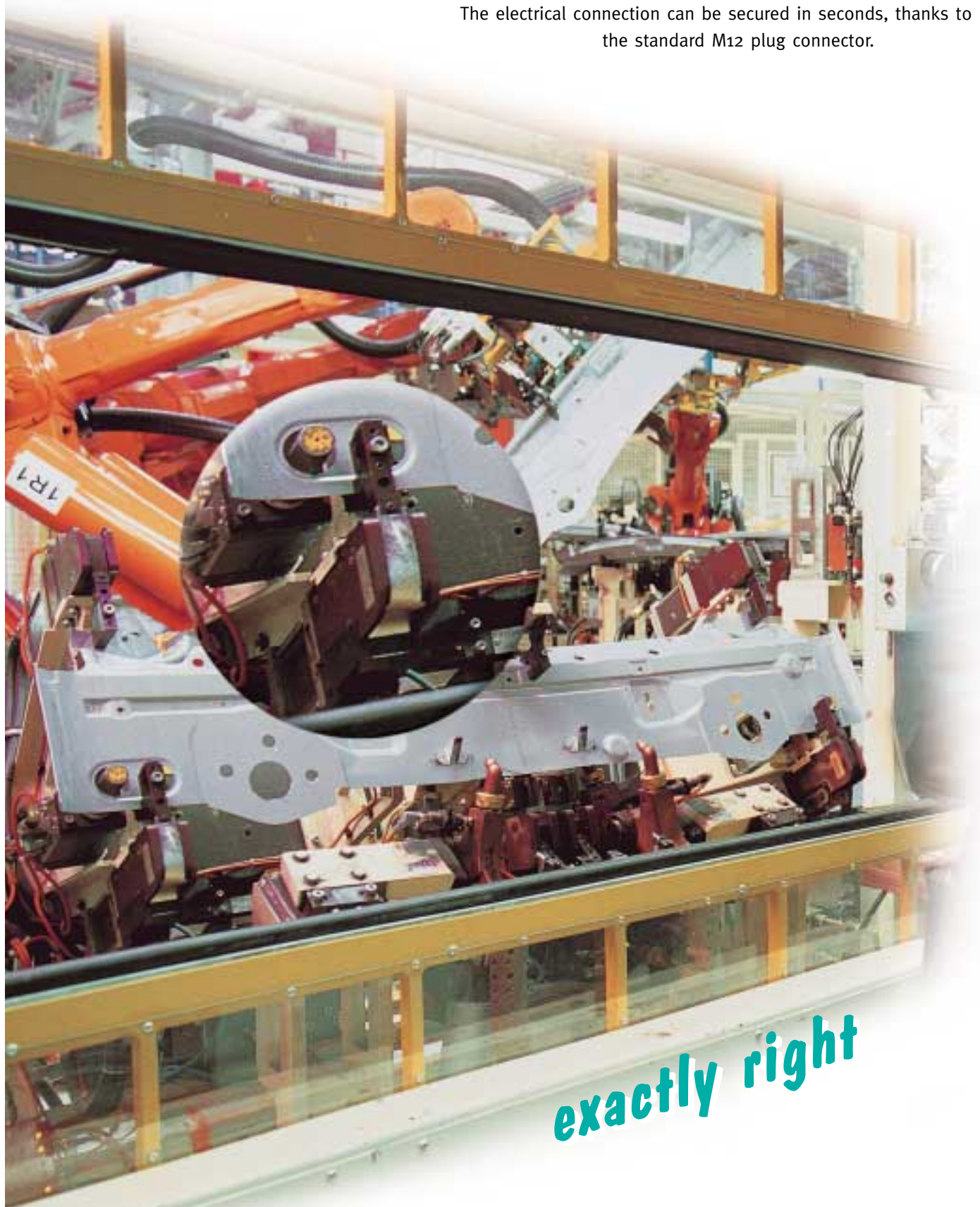


MONITORING SYSTEM FOR

POSITIONING RODS

Our modular interrogation system is also the optimum solution for your applications involving positioning rods for the adjustment of parts to be machined. The longitudinal motion can be easily detected by the sensor system. The cable is securely protected against external mechanical effects.

The electrical connection can be secured in seconds, thanks to the standard M12 plug connector.



exactly right

Reduce your installation time and costs, whilst increasing plant availability

Pepperl+Fuchs offers a compact, modular system solution for the position monitoring of clamping elements. This set comprises an LED display block and sensors, which are conceived as so-called "Peripherals".

The "Peripherals concept" has many advantages:

- 3 extremely bright LED bands for the indication of position and operating voltage.
- An adjustable M12 plug connector, which for maximum mechanical stability, can be secured at 45° intervals by means of a captive screw.
- Virtually continuous detection of the different opening angles of the clamping element.
- Welding-resistant system with extremely high switching accuracy and low hysteresis.

- Vibration-proof, robust mechanics incorporating glass fibre reinforced polyamid housing with metal base.
- Choice of a number of peripheral types employing plug-in or screwed connections, enabling them to be easily interchanged.
- Completely halogen and silicon-free.

precise,
robust,
fast

In contrast to other welding-resistant sensors with open coil systems or with mushroom core coils of low permeability, we can guarantee absolutely precise switching points. Our system detects errors in the complete system by means of pair monitoring - in accordance with the requirements of the motor industry - in less than a second and positional changes of the clamping element in 1 msec, i.e. virtually in real time.

The image shows a complex industrial machine with various Pepperl+Fuchs sensors. A prominent feature is a black sensor with a multi-colored LED strip (red, yellow, green, blue) and a digital display showing '100%' and '1000'. Other sensors are visible, including a cylindrical one with a green light and a rectangular one with a grey connector. Wires in blue, orange, and red are connected to the sensors. The background is a blurred view of the machine's internal components.

AC version

THE AC VERSION OF THE F58

Our Series F58 ...U8 offers you an alternating current version with the peripheral construction S6 and an NPT plug connector.

This means that it is even easier to use our products in the USA, Japan and France, for example.

S8

Universal

Decide on a mech
welding-resistant
unbeatable accur
Decide on Pepper

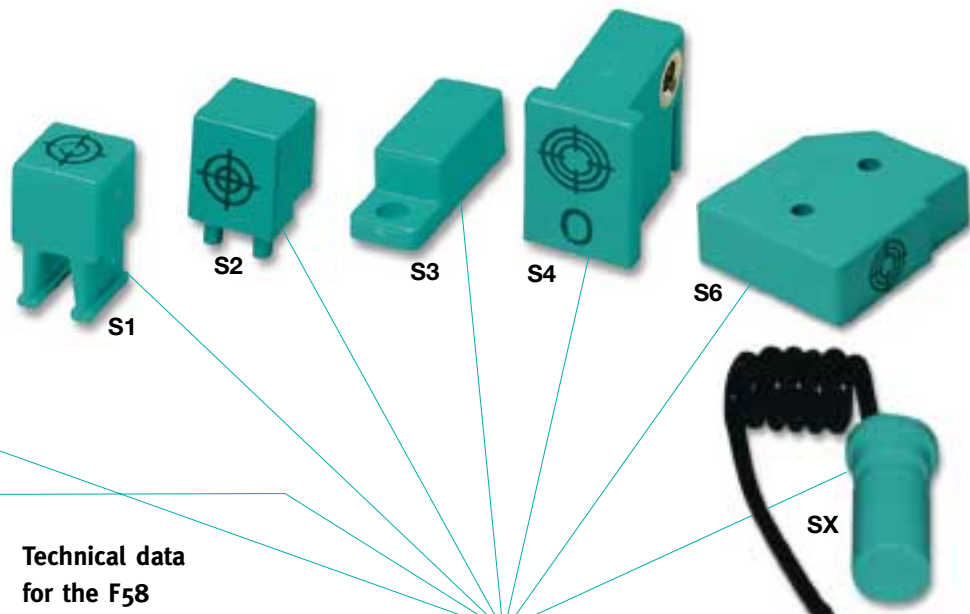
UNIVERSALLY SUITABLE –

OUR F58 SENSOR SYSTEM

All the advantages described are completely independent of the source of manufacture of the clamping components. It's quite immaterial whether these components are supplied by DE-STA-CO, Festo, Genus, ISI Norgreen, Misati, Pneumatic, SMC, Tünkers or by others. Our system is suitable for the products of all notable manufacturers.



Examples of existing solutions



Technical data for the F58

Order code	NBN2-F58 S...-E8-V1
Electrical output	2 x 3-wire, pnp, N.O.
Switching status indication	1 yellow LED for "Open", 1 red LED for "Closed"
Operating voltage indication	1 green LED
Connection type	M12 x 1, 4-pin plug connector
Guaranteed operating distance	1.5 mm
Operating voltage	10 V DC ... 30 V DC
Operating current	100 mA
Max. switching frequency	1 kHz
Short-circuit protection	pulsed
Polarity	reverse polarity-protected
Standard	conforms to EN 60947-5-2

mechanically and electrically solution, with its
+Fuchs!

THE INDUCTIVE TRANSMITTER –

MAINTENANCE IS NOW EVEN EASIER!

The sensor signals are transferred from the inside to the outside of the clamp through inductive transmission. When the interrogation module is replaced, the component of the clamp that is under compression remains completely untouched.



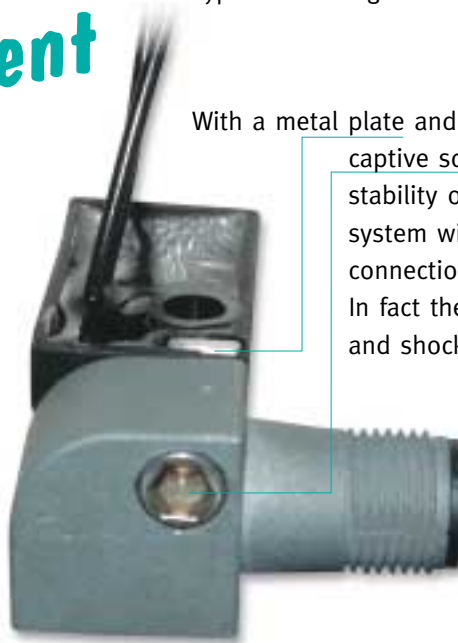
And Pepperl+Fuchs offers a complete range of cable sockets, cable plugs and connection cables, including braided types and halogen-free cables.

intelligent



With a metal plate and a

captive screw, the mechanical stability of the F58 interrogation system with rotatable plug connection is significantly increased. In fact the sensor is tamper-proof and shock-resistant.



The peripherals concept from Pepperl+Fuchs has been proved thousands of times in daily use. Now you can harness our experience for your application!

<http://www.pepperl-fuchs.com>

USA Headquarters

Pepperl+Fuchs Inc. · 1600 Enterprise Parkway
Twinsburg, Ohio 44087 · Cleveland-USA
Tel. (330) 4 25 35 55 · Fax (330) 4 25 46 07
e-mail: sales@us.pepperl-fuchs.com

Asia Pacific Headquarters

Pepperl+Fuchs Pte Ltd. · P+F Building
18 Ayer Rajah Crescent · Singapore 139942
Tel. (65) 7 79 90 91 · Fax (65) 8 73 16 37
e-mail: sales@sg.pepperl-fuchs.com

Worldwide Headquarters

Pepperl+Fuchs GmbH · Königsberger Allee 87
68307 Mannheim · Germany
Tel. +49 6 21 7 76-0 · Fax +49 6 21 7 76-10 00
e-mail: fa-info@de.pepperl-fuchs.com



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