

Motek 2016 in Stuttgart

Mayser makes automated processes safe

From individual product to holistic solution

Lindenberg/Ulm, 26.08.2016 – From 10 to 13 October, Mayser will be exhibiting at Motek in Stuttgart as an expert for safety in automation processes. In Hall 8 at Stand 8214, the company will showcase a safety system with components that can be used individually or in combination. That means the highest possible protection for people working with robots and automated systems. It uses safe ultrasonic sensors, pressure-sensitive and capacitive sensors as well as the soft cover solution.

Increasingly, collaborating, cooperating and co-existing systems require a holistic approach which makes the entire workplace safe, including tool, workpiece and automation areas. Mayser presents itself as a supplier of this kind of system in the fields of industry, robotics and automation for various products and applications.

Non-contact protection with secure ultrasound

A groundbreaking development in this field are ultrasonic sensors with very small ultrasonic transducers that can be positioned freely and unconnected to the electronic system. They can also be used in applications where space is too tight for conventional ultrasonic sensors. Unaffected by dirt, ambient noise, air flow or moisture, they reliably detect both people and objects in a wide variety of materials, regardless of shape, transparency and colour. There are practically no blind zones because the sensors measure the entire

area of the elliptical sound field up to a distance of 2.5 metres and detect even small objects. Another special feature of the ultrasonic safety system is the teach-in function. It enables the device to learn the complete measuring environment, including the static objects located in the detection field. From the beginning of 2017, an innovation in the field of ultrasonic will be available: the functionally reliable ultrasonic safety system. This dual-channel system is failsafe and complies with ISO 13849-1 category 3 PL d.

From safe system components up to high-end cobot workplaces

Mayser ensures safe cobot working areas not only with ultrasonic technology, but also with pressure-sensitive surface sensors, safety edges and safety bumpers. Non-contact sensors are also available to activate further protection mechanisms. The robot itself can be fitted with pressure-sensitive arm and joint safety solutions as well as a robust soft cover skin featuring yet more pressure-sensitive sensors that can be adapted to the specific geometry of the robot. Furthermore, the "soft" look boosts workers' acceptance of the robot.

Characters: 2,628

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About Mayser

Mayser is an international Company Group currently operating at five locations in Europe and the USA. The company develops and produces innovative, high-quality products, systems and solutions in the areas of safety technology, foam technology and moulded parts as well as headwear. The origin of the company goes all the way back to the year 1800, where everything started with the hat. Today Mayser has 800 employees and an excellent reputation in safety and foam technology in many industries, including automotive, mechanical engineering or local public transport.

Image

material:

Image 1



Various safety components such as safe ultrasonic sensors, surface sensors, pressure-sensitive and capacitive collision protection as well as soft cover for safe cobot working environments (HRC)

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Image 2



Top left to bottom right:

Pressure-sensitive arm and joint safety (1.), soft cover for a “soft” appearance (2.), non-contact environment recognition with ultrasonic sensors (3.) and pressure-sensitive environment recognition with surface sensors (4.)

Image 3



Collision protection from Mayser: pressure-sensitive and capacitive arm and joint safety solutions protect humans from or during contact with robots.