

### **World's first safe radar system solution new to the Pilz portfolio - Safe even in the most rugged environments!**

New to the Pilz portfolio is the world's first safe complete solution for protection zone monitoring, based on radar technology. It comprises the safe radar system "LBK System" from Inxpect S.p.A. and the configurable small controller PNOZmulti 2. As radar technology is fundamentally insensitive to external influences such as dust, rain, light, sparks or even shock, the solution provides safe, economical monitoring even in the most rugged environments where optoelectronic sensors and technologies cannot guarantee availability.

The safe radar system solution expands the Pilz portfolio in the [safe sensor technology range PSEN](#).

#### **Versatile and flexible system solution**

The [safe radar system solution](#) comprises up to six radar sensors and one control unit, depending on the application; in addition, the [PNOZmulti 2 compact configurable safe controller](#) is responsible for safety in the system. In the event of a fault and when the protection zone is violated, PNOZmulti ensures that the reaction that is triggered is safe and reliable. The safe radar system solution can be used up to SIL 2, PL d, Category 2. The safety-related functions covered by the system solution include the "detection function", i.e. when a machine is switched to a safe state as soon as a danger zone is violated, plus the restart interlock, which prevents the machine starting automatically if there is anyone in the danger zone.

The protection zone of each individual sensor is flexible and varies depending on installation height and inclination of the sensor. Each protection zone can be set up as wide - 110° horizontal/30° vertical – or narrow - 50° horizontal/15° vertical - with maximum depth of 4 m. The layout of the total protection zone and system is flexible and can be configured up to a maximum 15 m x 4 m using 6 sensors in series to create a linear barrier.

#### **Safety and productivity even in rugged environments**

Typical applications can be found in heavy industry, where dirt, dust, swarf or welding sparks, bright light and shock are prevalent. This includes steel processing, foundries or woodworking. Outdoors, the radar system solution safeguards cranes and floor conveyor systems, bulk cargo ports or storage facilities even in fog, snow and up to moderate rain.

For further information about the new Safe Radar System, please follow this [link](#), email [sales@pilz.co.uk](mailto:sales@pilz.co.uk) or call Pilz on +44 1536 460766.



*The world's first safe radar system solution expands the safe sensor technology range PSEN from Pilz.*

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