



► Industrial Security through zones and conduits

Greater safety and efficiency through the clear separation of standard and safety functions

PILZ
THE SPIRIT OF SAFETY



▶ Industrial Security through zones and conduits

Protection of machinery against corruption

In addition to IT, machinery in OT must also be reliably protected against cyber attacks and manipulation. The following applies: Machinery safety always has the highest priority and must never be compromised by unauthorised access. In Europe, this is made mandatory by the EU Machinery Regulation: So how can safety-relevant functions and controllers be effectively protected?

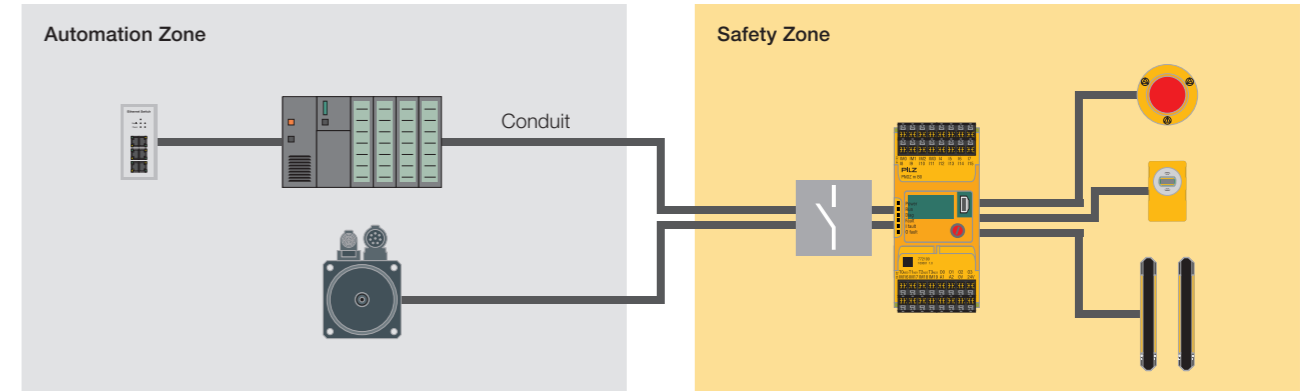
Clear structures for maximum safety

A proven approach is the consistent separation of safety functions in a separate zone with a defined security level. Protected connections (conduits) control secure communication between the zones and minimise risks. In this way, zones and conduits enable a clear, safety-orientated architecture for plant and machinery.

What do zones and conduits do?

- ▶ Clearer risk assessment: Zones enable an overview and precise analysis in accordance with EN ISO 12100.
- ▶ Targeted safety measures: Each zone is assigned a suitable security level – efficient protection where it is really needed.
- ▶ Less scope for attack: Protected connections (conduits) secure communication and reduce cyber risks.

IACS (Industrial Automation and Control Systems)



Separation of the safety-related control system into a separate zone with an increased security level

Benefits to you:

- + Clear safety structure through separation of safety-critical and non-critical areas
- + Improved planning of safety, maintenance and expansion measures
- + Increased machine availability through targeted maintenance of the zones
- + Efficient cybersecurity – optimally coordinated security levels per zone protect networks and data
- + Easy scalability for additional modules or machinery
- + Transparent documentation for assured CE compliance



Practical tip: Industrial Security to reduce risk

Find out how Industrial Security solutions reduce threats to machinery safety: www.pilz.com/security

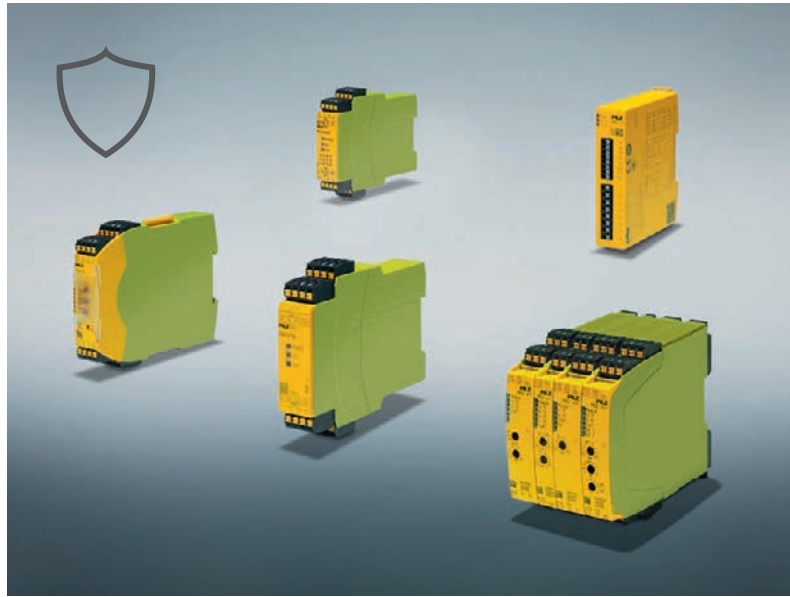


► Good to know

You are in safe hands with solutions from Pilz, including the PNOZsafety relay product families, which offer no scope for attack via the network and therefore enhance the Industrial Security of your safety zone!



Find out more:
www.pilz.com/pnoz



Best practice for zones and conduits:

- EN IEC 62443-3-2: Segmentation of the network into zones, separation of safety-related control systems
- EN 50742: Safety of machinery – Protection against corruption by means of safety-related security levels
- MITRE ATT&CK: Separation of the safety-related systems from the operating networks

Presented by:

Pilz GmbH & Co. KG
Felix-Wankel-Straße 2
73760 Ostfildern, Germany
Tel.: +49 711 3409-0
E-Mail: info@pilz.com, Internet: www.pilz.com

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone: +49 711 3409-0, E-Mail: info@pilz.com, Internet: www.pilz.com

PILZ
THE SPIRIT OF SAFETY