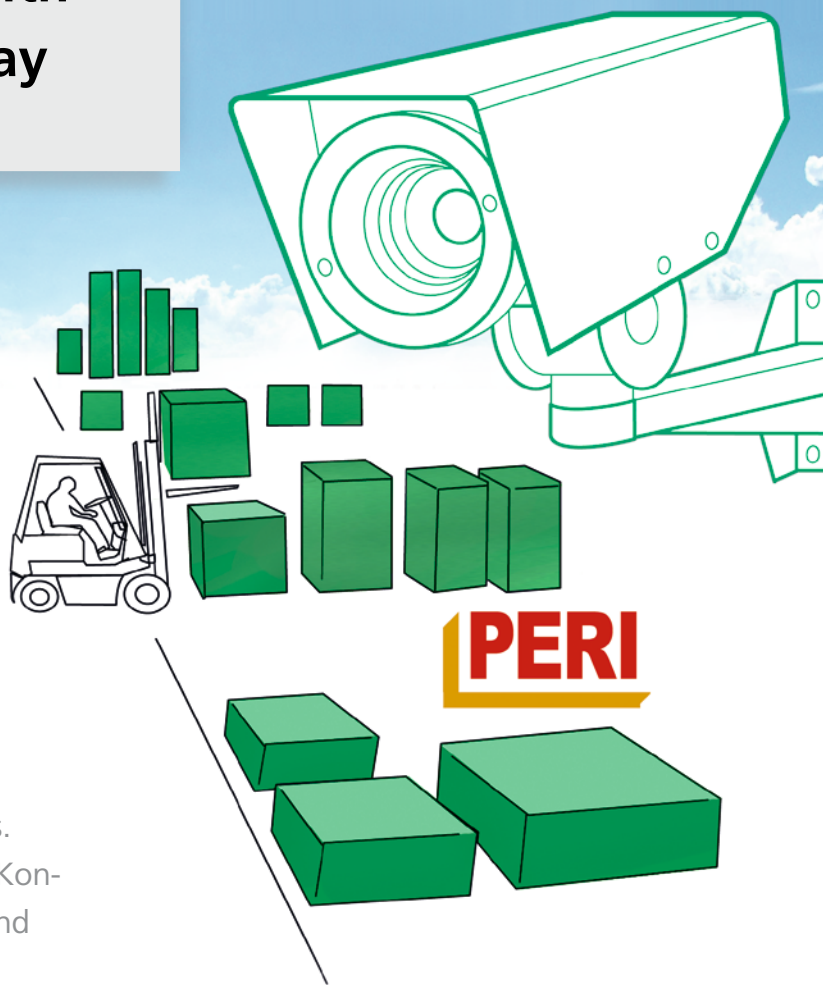


Protecting Open Spaces with easyControl und easyRelay

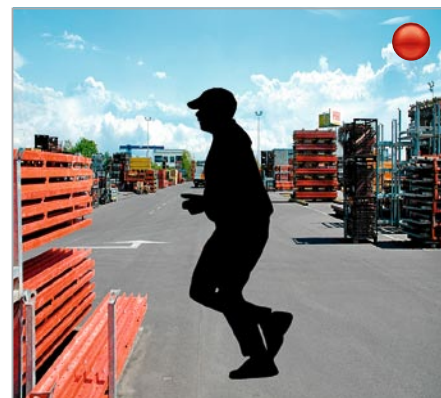
For companies with large open spaces that need protecting, the choice of security systems available is not particularly large. Areas of this kind also involve the frequent occurrence of disturbance factors and therefore false alarms. Bad weather, extreme temperatures or free roaming animals are all major causes of annoying and costly false alarms. The new security solution developed for Peri by Konzept + Sound uses Moeller's easyControl EC4P and easyRelay.



No alarm signal with flocks of birds.



No alarm signal with small animals.

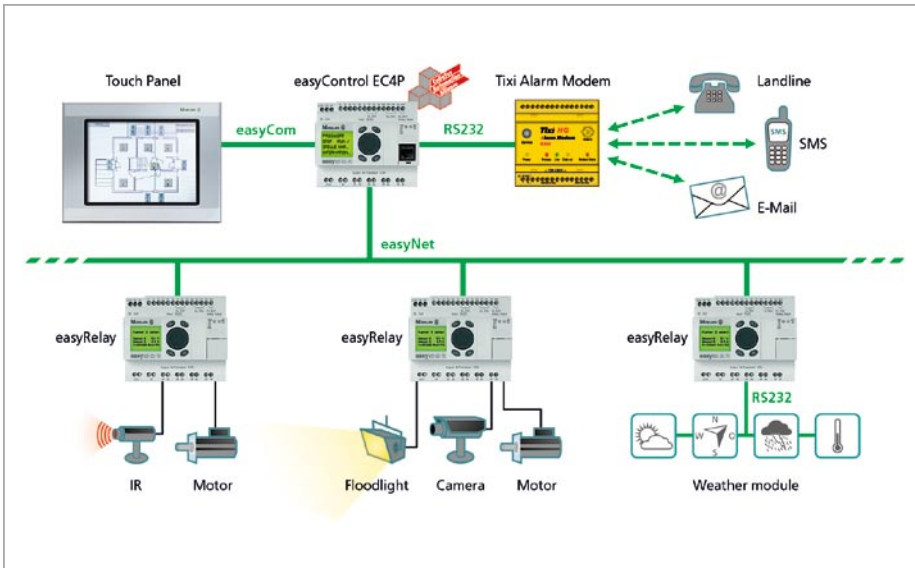


Alarm signal with the motion of persons.

The use of PLCs in security and alarm systems was previously more of an exception. Konzept + Sound GmbH, a company based in Marxen near Harburg, became one of its first pioneers. Systems available on the market only generate an alarm signal or simply nothing. These kinds

of systems cannot monitor or evaluate irrelevant disturbance factors with the result that users are forced to accept false alarms or have to use expensive security personnel with the system. Conventional systems use fences, gates and/or cameras that can be tampered with and

offer limited flexibility in the time/calendar profile. Neither do they take work flow or the floor spaces sufficiently into account and are far too complicated to operate.



Calibrating, communicating and controlling with easy

PERI GmbH is a company based in Weißenborn and a supplier of formwork and scaffolding systems. An open area security concept was required at its Leipzig branch with an area of 22 500 square metres. The first objective of the new solution was the elimination of disturbance factors. For example, flocks of birds that passed by a light barrier had to be registered by easyControl and as it were "calibrated". Disturbance factors due to the weather such as fog or snow had to be treated in a similar way: air humidity and temperature were calculated and set in relation to the functionality of the sensor. The sensor system was therefore assigned a message related plausibility range that could confirm an "alarm" as such and trigger it.

Infra-red technology could also be optimised using easyControl. Depending on the size and nature of the site, several infra-red sensors were used that can be moved precisely and also in opposing directions (rotation accuracy 0.05 degrees) over the site using easy800. This enables a considerably greater area to be scanned compared with static systems. In this process, easyControl acts as the control centre: dwell time and frequency can be programmed separately for each individual sensor, taking zones especially subject to risk, such as warehouses, into account. All easy800 devices connected to easyControl via easyNet send it their data. In the event of an alarm, the data processing that is synchronised to the easyControl as the control centre enables all sensors to be aligned to the detection field. This increases precision in terms of localisation, direction of motion and "spread" of the intruders. If

required, a simultaneously controlled camera can also be incorporated in the system.

A further requirement at Peri was that sections of the area to be protected had to be given temporary clearance in order to allow authorised operations on the site such as goods deliveries at night. For this, easyControl centrally activates the appropriate easy800 and gives clearance to particular sections for defined periods.

The system components communicate periodically via easyControl and at short intervals so that any manipulations or failures can be registered immediately and indicated as an alarm. All other easy components continue operation unaffected by this.

easyControl – as simple as it is flexible

A fully automated security system also has to be flexible, in order to incorporate any unscheduled and sudden changes in the system routine, such as a night shift scheduled at short notice. These kinds of individual and temporary accesses are primarily carried out via SMS using mobile phones. These are used as mobile switching stations that can receive plain text messages, send commands or carry out status requests. A Moeller XV200 graphic display (touch panel) can be integrated for the permanently installed switching control centre. A device from Tixi.Com GmbH is provided as the modem for data transfer, enabling the security system to be maintained easily at a distance.

Moeller GmbH
Hein-Moeller-Str. 7-11
53115 Bonn
Fax: +49 (0)228 602-2275
E-Mail: info@moeller.net
Internet: www.moeller.net

THE COMPANIES

PERI GmbH is a supplier of formwork and scaffolding systems with its headquarters in Weißenborn near Ulm. Peri is also a service provider with a wide range of services including engineering, planning, special software, rental services and logistics. Ninety percent of all PERI system devices are produced for sales worldwide. (contact: www.peri.de).

Konzept + Sound GmbH developed a fully automated and individually programmable security system called indu-protect for the protection of open industrial areas of up to 30 000 square metres. (contact: www.indu-protect.com).

Quicklink ID:

MS1409

CONCLUSION

Frank Buchner, branch manager at Peri Leipzig, spoke of his experience as a user: "We have had the new security solution in stable operation for a year. Since then burglaries have fallen considerably. The system also eliminates the need for a security guard who previously had to do his rounds three times a night. Our problem was that the area was large and unsurveyable with stacks of pallets six metres high. Today rotatable and coordinated infra-red sensors mounted six metres high "see" even into the remotest corner."

Frank Runge, managing director of Konzept + Sound, summarises: "The easyControl with data logger and convenient memory management functions is easy to operate, and enables us to implement externally controlled interventions and function requests, in addition to its efficient data handling features. This makes costly local interventions unnecessary and thus increases user-friendliness."

MOELLER

We keep power under control.