Description:
Monitoring of distributed IT cabinets in production facilities

Within the production facility there are IT cabinets which connect computer-controlled production lines to the server infrastructure for example. The cabinets ought to be monitored permanently for all critical threats such as over-temperature or fire in order to secure the constant availability of the systems and therefore guarantee an uninterrupted production. Potential risks ought to be detected as early as possible in order to initiate counter measures in time. The monitoring ought to be done from a central position so that critical conditions can directly be identified. Moreover, the solution ought to be scalable in order to be able to expand it if necessary.

In order to fulfill these requirements, you will need a Kentix AlarmManager-PRO and a MultiSensor-RF. These are installed in a central engineering or server room respectively. The radio-linked MultiSensor-RF takes over the monitoring of the room. It is connected via the included patch cable and power supply. A KeyPad-Touch inside the room additionally logs all accesses. Moreover, potential water ingress is monitored with the help of a LeakageSensor.

The IT or engineering cabinets on the production site are equipped with a MultiSensor-LAN each. These devices can be mounted directly inside the cabinet. They are connected via the network with a PoE-compatible switch.

The AlarmManager takes over the entire monitoring and checks for pre-defined thresholds. If a threshold is exceeded, the device sends an alarm to one or more users - via SMS, e-mail, SNMP and push notification. Additionally, all MultiSensors in the system are constantly monitored for availability.
System topology

Central server / engineering room

**MultiSensor-RF**
*KMS-RF*
Mounted on server room ceiling. Communicates via zigbee radio. Power supply via external power supply.

**KeyPad-Touch**
*KKPT*
Battery powered operating panel for the controlling of motion detectors in the MultiSensors or the burglar alarm function respectively.

**LeakageSensor-ROPE**
*KLS03-ROPE*
Mounted on floor or under double floor respectively.

**AlarmManager-PRO**
*KAM-PRO*
Central unit with network, radio and GSM. Mounted on the wall. Power supply via PoE.
System topology

Mounting and configuration: Server / engineering room - approx. 3-4 hours
IT / engineering cabinets - approx. 1 hour each
### Digital I/O Expansion Module
**KIO7053**
Systems such as climate or USV systems can be integrated into the monitoring solution via potential-free contacts by connecting them to a network-compatible I/O module.

### Camera (Indoor)
**M3105-LVE**
In case of an alarm, the AlarmManager can request pictures from a network camera. These will then be linked to the alarm e-mail the internal alarm logbook.

### AccessPoint
**KXP-16**
The Kentix DoorLock can equip IT cabinets with an online access control system. The solution is scalable as defined by the user and can be installed in IT or engineering cabinets as well as in doors of individual rooms.
### Parts list - Ordering assistance - central server / engineering room

<table>
<thead>
<tr>
<th>Device Name</th>
<th>Item Number</th>
<th>Quantity</th>
<th>Price in EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlarmManager-PRO</td>
<td>KAM-PRO</td>
<td>1</td>
<td>940,00 €</td>
</tr>
<tr>
<td>MultiSensor-RF</td>
<td>KMS-RF</td>
<td>1</td>
<td>395,00 €</td>
</tr>
<tr>
<td>LeakageSensor-ROPE</td>
<td>KLS03-ROPE</td>
<td>1</td>
<td>from 370,00 €</td>
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<tr>
<td>KeyPad-Touch</td>
<td>KKPT</td>
<td>1</td>
<td>490,00 €</td>
</tr>
</tbody>
</table>

### Parts list - Ordering assistance - IT / engineering cabinets

<table>
<thead>
<tr>
<th>Device Name</th>
<th>Item Number</th>
<th>Quantity</th>
<th>Price in EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MultiSensor-LAN</td>
<td>KMS-LAN</td>
<td>1</td>
<td>475,00 €</td>
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### Expansions

<table>
<thead>
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<th>Device Name</th>
<th>Item Number</th>
<th>Quantity</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Digital I/O Expansion Module</td>
<td>KIO7053</td>
<td>1</td>
<td>465,00 €</td>
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<tr>
<td>Camera</td>
<td>M3105-LVE</td>
<td>1</td>
<td>369,00 €</td>
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<td>StarterSet-DoorLock</td>
<td>KXC-CS1</td>
<td>1</td>
<td>825,00 €</td>
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<td>Profile half cylinder for IT cabinet</td>
<td>KXC-50AA</td>
<td>1</td>
<td>from 80,00 €</td>
</tr>
</tbody>
</table>

All prices are list prices plus VAT.  
Our offer is only addressed to business customers.