Description:
Data center with 300qm (3200sqft) and engineering side rooms

Data centers with a larger number of IT cabinets that are to be monitored for physical threats such as over temperature, high humidity, carbon monoxide (early fire detection) and more.

Several sensors that merge in a central system perform the monitoring. Adjoining engineering rooms ought to be monitored as well. The USV and climate systems can be integrated via existing signal contacts. Additionally, the solution is to offer interfaces for superordinate monitoring systems.

In order to cover these requirements, you will need an AlarmManager-PRO and a MultiSensor-LAN for the data center part. The MultiSensors are connected via the existing infrastructure with a PoE switch and are mounted on the ceiling of the server room with the included mounting brackets. All measured values are transmitted to the AlarmManager via the network. One MultiSensor-LAN covers an area of up to 20qm (200sqft).

In each engineering room, a MultiSensor-LAN is installed and mounted on the ceiling as well. In order to monitor potential water ingress, a LeakageSensor-ROPE is connected to the MultiSensor. External systems such as climate or USV systems are integrated into the monitoring solution via an I/O module.

The AlarmManager takes over the complete monitoring and checks for pre-defined thresholds. Once a threshold is exceeded, the device sends an alarm to up to 1.000 users.
Furthermore, the monitoring can be carried out by external network monitoring. The AlarmManager then provides all values and conditions via the SNMP interface for that purpose.
System topology

LAN

Data center

LAN (PoE)

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

MultiSensor-LAN
KMS-LAN
Mounted above the IT cabinets or directly inside the IT cabinet. Communication and power supply via the network (PoE).
**Mounting and configuration:**

- **Data center area** - approx. 16 hours
- **Engineering rooms** - approx. 2 hours each
  (without connection to I/O Expansion Modules)

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**System topology**

**Engineering rooms**

- **MultiSensor-LAN KMS-LAN**
  Mounted above the IT cabinets or directly inside the IT cabinet. Communication and power supply via the network (PoE).

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

- **Digital I/O Expansion Module KIO7053**
  Systems such as climate or USV systems can be integrated into the monitoring system via potential-free contacts by linking them to a network-compatible I/O module.
System topology
Expansions

MultiSensor-DOOR
KMS-DOOR
Battery powered MultiSensor for securing windows and doors with vibration sensor and magnetic contact.

Camera (Indoor)
In case of an alarm, the AlarmManager can send an HTTP call to a network camera. The camera will begin recording or send pictures via e-mail.

LAN

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 cabinets as well as in doors of individual rooms.
### Parts list - Ordering assistance - Data center

<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-B</td>
<td>1</td>
<td>940,00 €</td>
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<tr>
<td>MultiSensor-LAN</td>
<td>KMS-LAN</td>
<td>15</td>
<td>7.125,00 €</td>
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### Parts list - Ordering assistance - Engineering rooms

<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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<tr>
<td>LeakageSensor-ROPE</td>
<td>KLS03-ROPE</td>
<td>1</td>
<td>from 370,00 €</td>
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<tr>
<td>Digital I/O Expansion Module</td>
<td>KIO7053</td>
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<td>465,00 €</td>
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### Extensions

<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-DOOR</td>
<td>KMS-DOOR</td>
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<td>155,00 €</td>
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<tr>
<td>Camera</td>
<td>M3105-LVE</td>
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<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-50-AA</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.