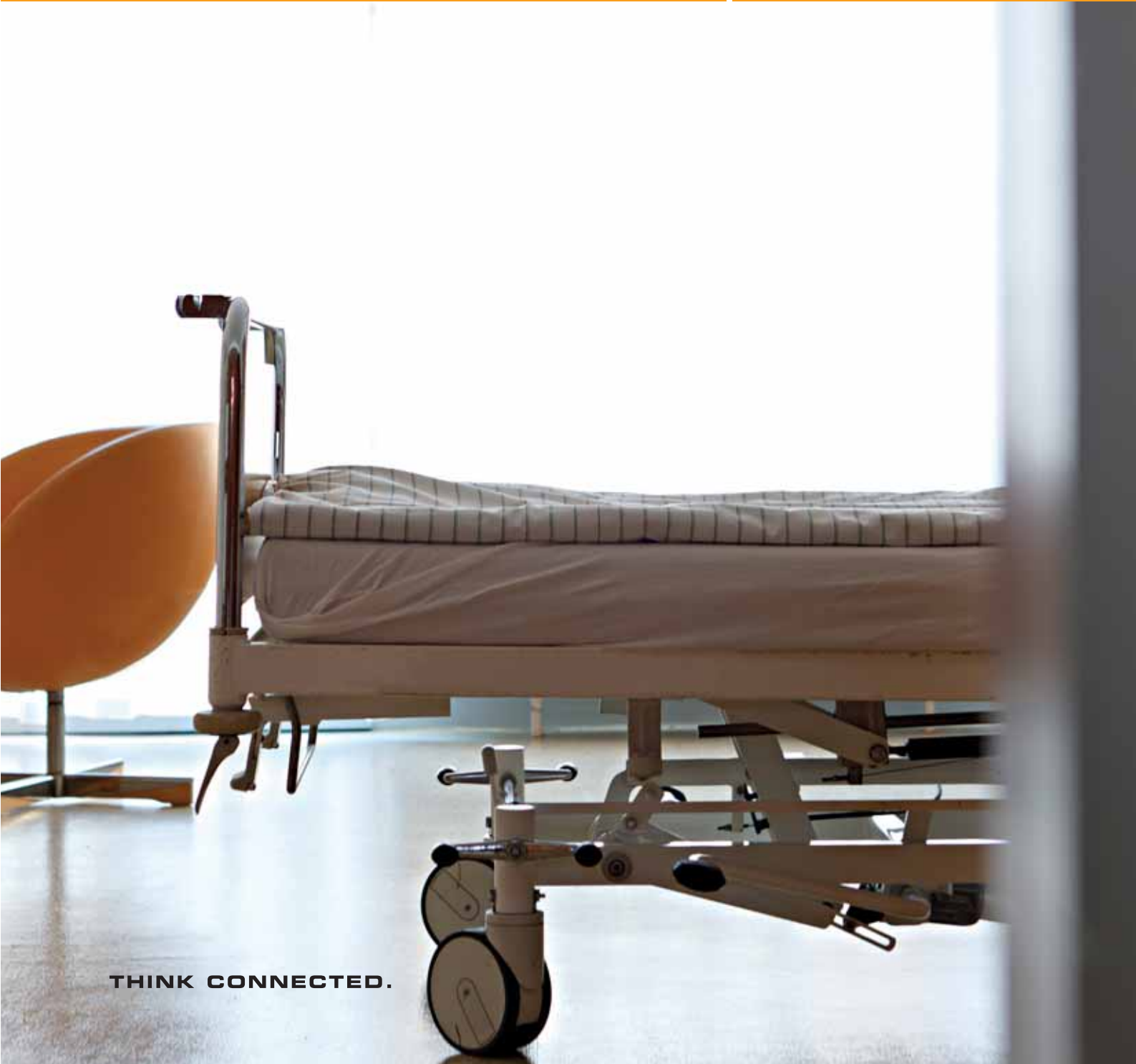


**Solutions for the health care sector**



**THINK CONNECTED.**

# Solutions for the health care sector

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There are only a few places where a failure of the power supply can be as life threatening as in a hospital, where delicate instruments and patients with limited mobility undergoing sensitive procedures demand the highest level of reliability and security.

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# Contents

## Think connected.

OBO means thinking in networks and acting systematically. This solutions brochure combines all the products and methods suitable for use in hospitals. In the areas of operation and supply (from underground car parks to power supply centres), cable support systems ensure that power and data arrive where they are needed.

Cable ducts, media poles and underfloor systems form perfect interfaces in treatment areas – places of healing and recovery. In the case of an emergency, fire protection insulation, escape route installations as well as lightning and surge protection systems provide for a maximum level of safety.



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## Cable support systems

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## Insulation

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## Escape route installations

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## Function maintenance systems

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## Underfloor systems

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## Cable routing systems

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## Cable management: Cable tray systems



*Cable tray system*

### **Steering the flow of power intelligently**

The complexity of electrical systems grows with the size of a building and the number of uses it has. The flow of electricity has to be channelled and guided along various routes, which demands some intelligent organisation.

### **Integrated systems**

OBO cable management encompasses a large number of different systems all aimed at guiding electricity and data from their entrance into the building all the way to the places where they are used, without interruption. A range of finishes and materials go to make up a complete portfolio for practically every kind of use. Furthermore, OBO is always producing innovative new solutions as new technical needs arise.



Centre right:  
RKS-Magic® cable tray system  
Bottom: MKS-Magic® cable tray system

## Fire protection and function maintenance: Three protection aims



### **Fires are the true test**

There are few places that demand such stringent safety measures in the event of a fire as hospitals. Safety-relevant systems have to work for as long as possible in order to protect people. With its tested systems for structural fire protection, OBO is helping to fulfil them.

### **Three protection aims**

There are three protection aims that have to be met in buildings where lots of people congregate frequently:

1. Limit the spread of fire
2. Safeguard escape and rescue routes
3. Maintain the function of electrical systems

By using OBO systems, architects and operators can draw on optimised components for complete fire protection and function maintenance in their buildings.

# Insulation



**1st protection aim:  
Limit the spread of fire**

By limiting the fire to particular parts of a building, the remaining sections can be protected for a certain amount of time, which means valuable breathing-space for evacuating people and initiating extinguishing work.

**OBO insulation**

OBO insulation maintains the integrity of fire areas, which prevents fire and smoke from spreading quickly. This insulation is designed for a variety of wall types and for the various pipes and cables that pass through them.



*Top: labelled insulation system*

*Bottom: protecting a bridge over a firewall using fire protection bandage*

## Escape route installations



### 2nd protection aim: Safeguard escape and rescue routes

When a fire breaks out every minute counts, and escape and rescue routes become a building's lifelines. The longer people can use them for, the higher their chances of escaping fire and dangerous smoke.

### OBO systems for escape route installation

OBO offers a comprehensive range of tested fire protection systems with which to safeguard escape and rescue routes. The range includes collecting clamps and cable clamps made from metal, cable trays, fire protection ducting, fire protection bandages and much more. Escape route installations are fitted above false ceilings.



*Escape route installation system above a suspended fire protection ceiling*



## Systems for electrical function maintenance

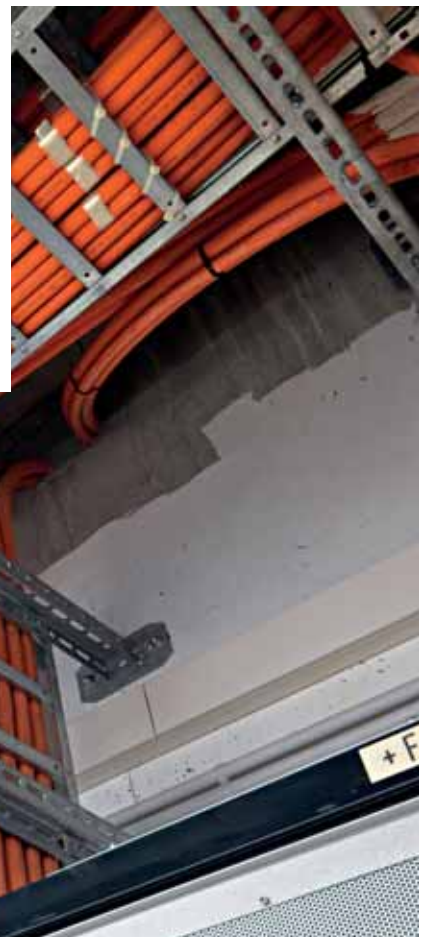


### **3rd protection aim: Electrical function maintenance**

Function maintenance in electrical systems means that the flow of electricity is not cut off during a fire. That in turn means escape and rescue routes can still be used. Important technical facilities, such as emergency lightning, fire alarms, smoke extractors and extinguisher systems, all continue to function. The longer these systems remain in action, the greater the chances are of rescuing people.

### **OBO systems for electrical function maintenance**

OBO systems withstand the heat of fire for a certain period of time without impairing the function of the cables. From cable trays to cable junction boxes, these products are all tested in compliance with German and international standards.



*Function maintenance systems*

## Safety first Solutions for external lightning protection and surge protection



### A pivotal topic

No hospital operator can afford a lightning-induced technical equipment failure. Effective protection is ensured by skilfully and correctly installed lightning protection systems. Damage is caused just as often by electrical surges, which can be triggered by nearby lightning or by switching in large electrical systems. The results can be devastating: not only equipment damage, but network failure and data loss.



Top: combination conductor in a switchgear cabinet with Dahl wiring ducts



### **Integrated lightning and surge protection from OBO**

OBO systems protect people and property reliably. Air termination systems, conductors and earthing systems provide external lightning protection, while equipotential bonding and surge protection equipment protects against the effects of lightning current. Only if all these components are installed is genuine protection afforded. OBO supplies all of these elements, perfectly matched and from a single source.



*Top: equipotential bonding rail  
Bottom: interception rod*

## Underfloor systems



### Taking the strain

In buildings frequented every day by large numbers of people, electrical installations are subject to enormous loads. With their high-quality materials and sturdy thicknesses, OBO underfloor systems can take

the strain. Numerous useful special parts and ingenious accessories guarantee lasting quality. OBO will also gladly produce custom products tailored to your particular requirements.





## Solutions for office work places



### **Flexible solutions for administration**

The work processes that take place in hospital administration centres are closely intertwined with electrical systems. OBO solutions form the basis for that. They conduct electricity through floors, ceilings and walls. Complex interior architecture benefits especially from the flexibility of our systems, since they can be adapted perfectly to every type of task and room.

### **Device installation trunking**

Bothersome cables are a thing of the past when you supply offices with power and data via device installation trunking along the wall. Fitted at a convenient height, this trunking provides quick access to sockets and data outlets. OBO device installation trunking boasts a wide range of components, ease of combination and intelligent details.



*Floor-to-ceiling pole*

### **Service poles**

Service poles from OBO are among the technical and visual highlights of our office power supply systems. These slimline aluminium or steel floor-to-ceiling poles can be supplied with electricity and data via consolidation points inside false ceilings, and they can be positioned anywhere. Floor poles are preferably connected up through raised and hollow floors.



*Floor pole*

[www.obo-bettermann.com](http://www.obo-bettermann.com)



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