#### **Product Overview**

# MICROSENS

## Gigabit Ethernet Medical Micro Switch



#### Description

With the Medical Switch, MICROSENS is setting new standards in terms of performance, reliability, and security for data networks in medical technology, hospitals, and medical practices. The device exceeds the strict stipulations in terms of electromagnetic compatibility, as well as the requirements of the Medical Products Law. The network accesses are decoupled galvanically by means of special insulators to protect patients and devices against fault currents from the network. For particularly high demands placed on network security in the medical environment, the Medical Switch offers extensive security features, which make sure that confidential data will actually remain confidential. The Medical Switch builds on the proven, decentralised network architecture. The economic efficiency of this architecture has been established through independent surveys and numerous projects.

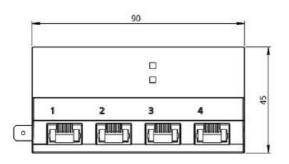
The freely-accessible network ports of the MICROSENS Medical Micro Switch are equipped with special, galvanically-isolated transformers. The minimum distance between the pri-mary and secondary connectors is 8 mm. Due to their minimum dielectric strength of 4,000 volts and 2x MOPP insulation resistance in compliance with IEC/EN 60601-1, the insulators effectively prevent endangerment of both patients and medical personnel in the case of a failure or voltage flashover.

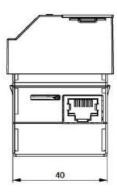
Our extremely compact switch excels through its minimal space requirements which allow it to be installed in a wide variety of different installation environments, such as in ceiling installation units. Apart from a model with its own internal 230 VAC power supply, we also offer a Medical Micro Switch designed for power intake from an external 48 VDC medical power unit. In the case of our 48 V model, the deployment of a separate medical power supply also provides additional protection from the power supply device.

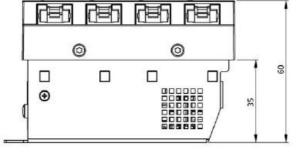
#### Properties

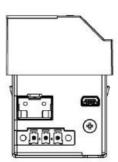
- Security for patients and medical facilities by means of four galvanically separated 10/100/1000 Mbps accesses with integrated network insulators
- Surpasses the strict requirements according to EN 60601-1 / IEC 60601-1 (min. 4 kV) for electrical medical devices
- Fulfi Is the strict requirements in terms of patient protection with 2 MOPP
- Optional external medical power supply with additional protection
- Maximum network availability due to two Gigabit uplinks
- Suitable for HL7 and HIPAA applications
- Maximum performance and fault tolerance due to robust electronics proven in practical application
- Robust plastic surface allows eff ective cleaning and disinfection, antibacterial coating
- High economic efficiency proven by independent surveys
- Investment protection by means of highperformance, future-proof fiber optic lines

## Dimensions









### **Order Information**

#### Description Gigabit Ethernet Medical Micro-Switch, 4x10/100/1000T with 2x 100/1000X SFP uplink MS445207M-G6 port (dual speed), int. 230VAC power supply Gigabit Ethernet Medical Micro-Switch, 4x10/100/1000T with 100/1000X SFP uplink port MS445209M-G6+ (dual speed) and 10/100/1000T Downlink, int. 230VAC power supply Gigabit Ethernet Medical Micro-Switch, 4x10/100/1000T with 2x 100/1000X SFP uplink MS445207M-48G6 port (dual speed), ext. 48VDC power supply Gigabit Ethernet Medical Micro-Switch, 4x10/100/1000T with 100/1000X SFP uplink port MS445209M-48G6+ (dual speed) and 10/100/1000T Downlink, ext. 48VDC power supply Gigabit Ethernet Medical Micro-Switch, 4x10/100/1000T with 10/100/1000T (PoE PD) MS445186PM-48G6+ uplink port and 10/100/1000T PoE PSE Downlink, ext. 48VDC power supply, opt. PoE-PD powering

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