Manufacturers Declaration

MICROSENS
fiber optic solutions
a company of the euromicron group

MICROSENS GmbH & Co. KG
Küferstraße 16
D-59067 Hamm / Germany

declares that the product:

10 Port Industrial Switch, manageable, for railway applications,
1 x 10/100/1000Base-T, RJ45 jack for shielded twisted pair cable (Cat. 5),
7 x 10/100Base-TX, RJ45 jack for shielded twisted pair cable (Cat. 5),
3 x SFP slot for pluggable transceiver,
48 VDC power supply, integrated IEEE802.3af PSE controller for all RJ45 ports,
Art.-No. MS650869PM-48-B

is in compliance with the following standards:

Power Substation applications

IEC 61850-3:2002	Communication networks and systems in substations – Part 3: General requirements
IEEE 1613:2003 (Class 1)	Environmental and Testing Requirements for Communications Networking Devices in Electric Power Substations
IEC 60870-2-2:1996 (3K3)	Telecontrol equipment and systems - Part 2: Operating conditions – Section 2: Environmental conditions (climatic, mechanical and other non electrical influences)

Railway applications

EN 50121-4:2006	Railway applications - Electromagnetic compatibility – Part 4: emission and immunity of the signalling and telecommunications apparatus
EN 50125-3:2003	Railway applications - Environmental conditions for equipment – Part 3: Equipment for signalling and telecommunications

General Industrial applications

EN 61000-6-1:2007	Electromagnetic compatibility (EMC) - Part 6-1 : generic standards – Immunity for residential, commercial and light-industrial environments
EN 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2 : generic standards – Immunity for industrial environments
EN 61000-6-3:2007	Electromagnetic compatibility (EMC) - Part 6-3 : generic standards – Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4:2007	Electromagnetic compatibility (EMC) - Part 6-4 : generic standards – Emission standard for industrial environments
EN 55022:2006 / A1:2007	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
EN 55024: 1998 / A1:2001 / A2:2003	Information technology equipment - Immunity characteristics – Limits and methods of measurement

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H. Bauer, Technical Director

Hamm, 11.09.2009