

10.3 ELECTRICAL

Category	Standards or Test Criteria	EN-10H/V	EN-10HG/VG
AC Dielectric Strength	at 50 Hz, for 60 seconds	4.0 kV	4.0 kV
DC Dielectric Strength	for 60 seconds	5.6 kV	5.6 kV
Reinforced Isolation	IEC 60601-1	✓	✓
Coupling Capacitance per Channel		15 pF max.	37.5 pF ±25%
Total Coupling Capacitance		30 pF max.	150 pF ±25%
Total Leakage Current	275 V AC at 50 Hz	Typical:	2.0 µA
		Maximum:	5.0 µA
			12.0 µA
			16.0 µA

10.4 OPERATING CONDITIONS

Category	Standards or Test Criteria	EN-10H/V	EN-10HG/VG
Pollution Degree	IEC 61010	2 *	2 *
Overtoltage Category	IEC 60664-1	III	III
Maximum Working Voltage †	Maximum mains voltage of the connected devices, in accordance with IEC 60601-1	250 V AC 300 V DC	250 V AC 300 V DC
Temperature		Minimum:	-10°C
		Maximum:	+70°C
Air Humidity	Non-condensing	Minimum:	10%
		Maximum:	90%
Air Pressure		Minimum:	700 hPa
		Maximum:	1,060 hPa
Altitude		Maximum:	3,200 m

10.5 ENVIRONMENTAL CONDITIONS

Category	Standards or Test Criteria	EN-10H/V	EN-10HG/VG
Temperature		Minimum:	-25°C
		Maximum:	+85°C
Air Humidity	Non-condensing	Minimum:	10%
		Maximum:	90%
Air Pressure		Minimum:	500 hPa
		Maximum:	1,060 hPa

* Normally only nonconductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

† The Network Isolator can be permanently exposed to this voltage level.

11.2 EN-10H AND EN-10V

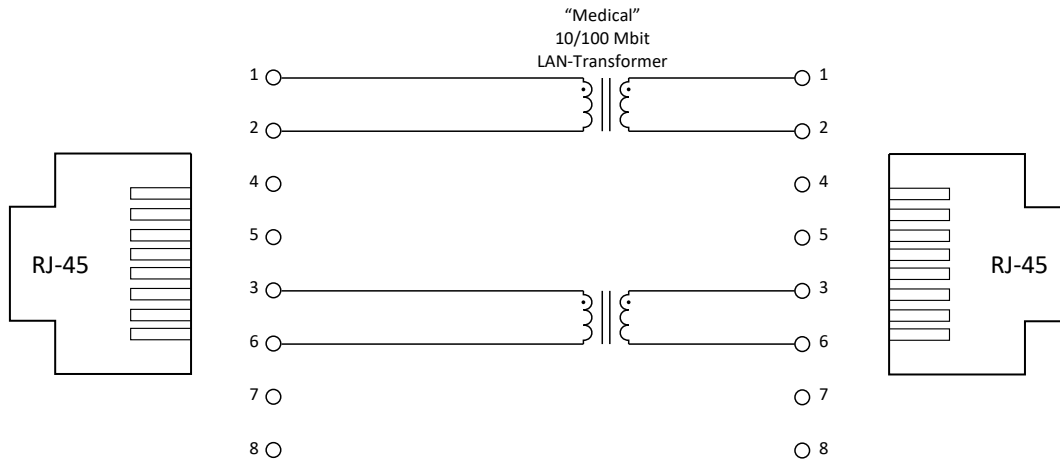


Figure 15. Schematic diagram for EN-10H and EN-10V

12 PRODUCT MARKINGS

	Through this mark, the conformity of the product with all applicable EU Directives is confirmed.
	Designates the product as a UL "Recognised Component"; File № E362969.
	The product may not be disposed of in domestic rubbish.
	This product meets the requirements of EU Directive concerning the limitation of the use of certain hazardous substances in electric and electronic equipment.

13 SCHEDULED MAINTENANCE

When used as directed, EMOSAFE Network Isolators are maintenance-free.

14 ENVIRONMENTAL PROTECTION INFORMATION

This device contains electronic components. At the end of its service life it is to be returned to the manufacturer for disposal.

15 PACKAGING

Contents:

- Network Isolator. One of: EN-10H, EN-10HG, EN-10V, EN-10VG
- Installation Guide

A packaging label provides the following information:

- Article Description

- Quantity
- Date of Manufacture
- Serial Number (SN)
- The Serial Number is printed as both a linear (Code 128) and a 2-D Barcode (Data Matrix)

16 QUALITY

EMO Systems operates a certified quality management system for development and production in accordance with ISO 9001 and ISO 13485. Prior to delivery, each Network Isolator is subjected to a comprehensive quality inspection. This inspection ensures, among other factors, that the attained values for leakage currents, dielectric withstand strengths, insertion losses, return losses, and near end crosstalk values all meet the specified requirements.

17 CONTACT AND SUPPORT

Please find our up-to-date contact details on our website:

www.emosystems.de/en/contact

Or send us an email at the following address:

support@emosystems.de

18 LEGAL NOTICE

The information provided in this datasheet has been compiled with all due care, and is believed to be accurate and reliable. However, we cannot guarantee that the information contained is completely free of errors.

The end user is responsible and liable for the proper use of this product; EMO Systems assumes no liability. We reserve the right to make changes to this datasheet without notice.