

Manufacturer's Declaration of Conformity

Hirschmann Automation and Control GmbH

**Stuttgarter Straße 45-51
D-72654 Neckartenzlingen, Germany**

declares in sole responsibility, that the product(s)

19" Managed Ethernet Switch

(Product description)

GRS103-6TX/4C-1HV-2A	942 298-002	GRS103-6TX/4C-1HV-2S,	942 298-001
GRS103-6TX/4C-2HV-2A	942 298-004	GRS103-6TX/4C-2HV-2S,	942 298-003
GRS103-22TX/4C-1HV-2A	942 298-006	GRS103-22TX/4C-1HV-2S,	942 298-005
GRS103-22TX/4C-2HV-2A	942 298-008	GRS103-22TX/4C-2HV-2S,	942 298-007.

optional assembled with media modules:

M1-8TP-RJ45, 943 970-001²
M1-8MM-SC, 943 970-101
M1-8SM-SC, 943 970-201
M1-8SFP, 943 970-301
M1-8TP-RJ45-PoE, 942 028-001

²= optional assembled with optical transceivers: M-FAST SFP-x, M-SFP-x, SFP-FAST-x and SFP-GIG-x, and optional assembled with Auto-Configuration Adapter: ACA22-USB-C (EEC).

(Type, reference number)

has been designed and manufactured in accordance with the following standards

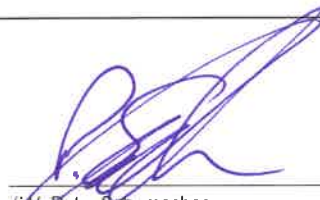
EN 50121-4:2016 + A1:2019 – Railway Applications – EMC – Signalling and telecommunication apparatus

Test description	EN 50121-4 Section	Test Reference	Requirement
Radiated electromagnetic field	table 2.1	IEC 61000-4-3	80...800 MHz, 10 V/m 800...1000 MHz, 20 V/m 1400...2000 MHz, 10 V/m 2000...2700 MHz, 5 V/m 5100...6000 MHz, 3 V/m
	table 2.2	IEC 61000-4-3	
Power frequency magnetic field	table 2.3	IEC 61000-4-8	16,7 Hz, 100 A/m 50 Hz, 100 A/m 0 Hz, 100 A/m
Electrostatic Discharge	table 2.4	IEC 61000-4-2	±6 kV contact discharge ±8 kV air discharge
Conducted disturbances	table 3.1/ 4.1/ 5.1/ 6.1	IEC 61000-4-6	Signal ports, power ports: 10 V
Fast transient / burst	table 3.2/ 4.2/ 5.2/ 6.2	IEC 61000-4-4	Signal ports, power ports: ±2kV

Surges 1,2/50µs	table 3.3/ 4.3/ 5.3	IEC 61000-4-5	<i>Signal ports, power ports:</i> CM ±2kV DM ±1kV
Radiated Emission	5	EN 61000-6-4	30...230 MHz: 40 dBµV/m (10m) 230...1000 MHz: 47 dBµV/m (10m) 1...3 GHz: 76 dBµV/m peak (3m) 56 dBµV/m av. (3m) 3...6 GHz: 80 dBµV/m peak (3m) 60 dBµV/m av. (3m)
Conducted Emission on AC or DC power ports	table 1.1	EN 55016-2-1	<i>Power ports:</i> 150...500 kHz: 79 dBµV qp. 66 dBµV av. 500 kHz...30 MHz: 73 dBµV qp. 60 dBµV av.



(Wolfgang Schenk
VP Business Development
Industrial Automation)



(v. Peter Schumacher
Quality Manager)

Neckartenzlingen, 2024-08-27

(Issue place and date)