

BiSS-Gateway

24 V BiSS Safety > PROFINET/PROFIsafe R1

In the 24 V BiSS Safety > PROFINET / PROFIsafe variant, the BiSS-Gateway provides the data received by BiSS Safety from up to two encoders via PROFINET and PROFIsafe to a PROFINET IO controller.

Part no.: 4260629980138



SUPPLY

Nominal voltage	24V DC
Voltage range	19,2V bis 28,8V DC
Max. input power (excl power of encoder)	<4W (0,166A @ 24V DC)
Max. input power (incl power of encoder)	<12W (0,5A @ 24V DC)
Overvoltage protection	Yes
Reverse polarity protection	Yes
Encoder current consumption	max. 1A

INTERFACES

Power supply	terminal connection, wire size 0,2 – 1,31mm ² (AWG16-26)
PROFINET IO Controller	1x RJ-45
PROFINET Periphery	1x RJ-45 (Daisy Chain)
BiSS Safety-Encoder 1	D-Sub, 9-pole, coded
BiSS Safety-Encoder 2	D-Sub, 9-pole, coded

MECHANICAL DATA

Dimensions	170mm x 116,4mm x 40mm
Weight	Approx. 0,5kg
Mounting type	35mm top hat rail

BISS SAFETY

Protocol type	BiSS C
Transmission profile (BiSS Safety)	RXH
Transmission rate	10Mbit/s
Update rate	1kSample/s
Asynchron Control Data Communication	Configuration of encoder communication

PROFINET

Type	PROFINET IO Device
Transmission rate	100Mbit/s
Update rate	1kHz (RT, adjustable)
PROFINET IO Version	2.35 / 2.42
Supported services	SNMP, LLDP
Supported MIBs	MIB2
Realtime Class	RT_CLASS_1
Netload Class	II
Conformance Class	B

PROFIsafe

Device Function	PROFIsafe F-Device
PROFIsafe Version	2.6.1

AMBIENT CONDITIONS

Vibration resistance acc. to EN 60068-2-6	2Hz – 9Hz & 9Hz – 200Hz: 1,5mm by constant acceleration
Shock resistance acc. to EN 60068-2-27	50m/s ² , 6ms
Ambient temperature operation	0°C – 60°C
Ambient temperature storage/transport	-40°C – 60°C
Relative humidity	5% – 85% without condensation
Altitude	<3000m above sea level
Protection degree acc. to EN 60529	IP20
Protection class acc. to EN60529	Safety class III

CONFORMITY EMC GUIDELINE 2014/30/EU

Discharge, static electricity acc. to EN 61000-4-2	Contact discharge: 4kV Air discharge: 8kV
Electromagnetic field acc. to EN 61000-4-3	80MHz – 1GHz, 10V/m 1,4GHz – 1,6GHz & 1,8GHz – 2,2GHz, 5,1GHz – 6GHz & 2,4GHz – 2,5GHz 3V/m 80%AM (1kHz)
Fast transients (Burst) acc. to EN 61000-4-4	Signal input: ±1kV, 5/50ns Repeat frequency: 5kHz DC power input: ±2kV, 5/50ns Repeat frequency: 5kHz

Conducted emitted interference acc. to EN 61000-4-6	150kHz – 80MHz 10V/m 80%AM (1kHz)
Emitted interference case acc. to CISPR 16-1-1 CISPR 16-1-4 CISPR 16-2-3	30MHz – 230MHz 50dB (µV/m) quasi peak value in 3m 230MHz – 1000MHz 57dB (µV/m) quasi peak value in 3m
Emitted interference low voltage connection acc. to CISPR 16-1-1 CISPR 16-1-2 CISPR 16-2-1	0,15MHz – 0,5MHz 79dB (µV/m) quasi peak value 66dB(µV/m) mean value 0,5MHz – 30MHz 73dB (µV/m) quasi peak value 60dB(µV/m) mean value
EN 55032 telecommunication connection	0,15MHz – 0,5MHz 87dB – 97dB (µV/m) quasi peak value 84dB – 74dB (µV/m) mean value 0,5MHz – 30MHz 84dB (µV/m) quasi peak value 74dB (µV/m) mean value

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