

kuBusBox

EnDat 2.2 > PROFINET/PROFIsafe

The kuBusBox, in the EnDat 2.2 PROFINET/PROFIsafe version, supplies data received via EnDat 2.2 from up to two encoders to a PROFINET IO controller via PROFINET and PROFIsafe.

Part no.: 4260629980077



SUPPLY

Rated voltage	24V DC
Permissible voltage range	19.2V to 28.8V DC
Max. power input (excl. encoder power)	<4W (0.166A @ 24V DC)
Max. power input (incl. encoder power)	<12W (0.500A @ 24V DC)
Surge protection	Yes
Reverse polarity protection	Yes
Encoder supply	Max. 1A

INTERFACES

Power supply	Pluggable terminal block with screw connection, conductor cross-section 0.2 to 1.31 mm ² (AWG16-26)
PROFINET IO controller	1x RJ45
PROFINET periphery	1x RJ45 (daisy chain)
EnDat encoder 1	D-sub, 9-pin
EnDat encoder 2	D-sub, 9-pin

MECHANICAL DATA

Dimensions	165.5mm x 110mm x 50mm
Weight	Approx. 0.5kg
Mounting type	35mm DIN top-hat rail

EnDat 2.2

Protocol type	EnDat 2.2, downward compatible to EnDat 2.1
Measuring device identification	Automatic
Clock frequency	Up to 16MHz
Time-delay compensation	Automatic

PROFINET

Device function	PROFINET IO device
Transfer rate	100Mbps
Update rate	1ms (RT, adjustable)
PROFINET IO version	2.3.5
Supported protocols	SNMP, LLDP
Supported MIBs	MIB2
Real-time class	RT_CLASS_1
Netload class	II
Conformance class	B

PROFISAFE

Device function	PROFIsafe F device
PROFIsafe version	2.6.1

AMBIENT CONDITIONS

Vibration DIN EN 60068-2-6	2Hz - 9Hz & 9Hz - 200Hz: 1.5mm with constant acceleration
Shock DIN EN 60068-2-27	50m/s ² for 6ms
Ambient temperature, operation	0°C to 60°C
Ambient temperature, storage/transport	-40°C to 60°C
Relative humidity	5% to 85% without condensation
Altitude for operation	<3000m above sea level
Protection rating	IP20 (as per DIN EN 60529)
Protection class	III

COMPLIANCE WITH EMC DIRECTIVE 2014/30/EU

Discharge of static electricity According to EN 61000-4-2	Contact discharge: 4kV Air discharge: 8kV
Electromagnetic fields According to EN 61000-4-3	80MHz to 1GHz 10V/m 1.4GHz to 1.6GHz and 1.8GHz to 2.2GHz 2.4GHz to 2.5GHz and 5.1GHz to 5.8GHz 3V/m 80%AM (1kHz)
Fast transients (burst) According to EN 61000-4-4	Signal connection: ±1kV 5/50ns 5kHz repetition frequency Mains DC input: ±2kV 5/50ns 5kHz repetition frequency

Conducted interference According to EN 61000-4-6	150kHz to 80MHz 10V/m 80% AM (1kHz)
Emitted interference, casing According to CISPR 16-1-1 CISPR 16-1-4 CISPR 16-2-3	30MHz - 230MHz 40dB (µV/m) quasi-peak value at 10m <hr/> 230MHz - 1000MHz 47dB (µV/m) quasi-peak value at 10m
Emitted interference, low voltage connection 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) average <hr/> 0.5MHz - 30MHz 73dB (µV/m) quasi-peak value 60dB (µV/m) average
EN 55032 Telecommunication connections	0.15MHz - 0.5MHz 74dB (µV/m) quasi-peak value 74dB - 64dB (µV/m) average <hr/> 0.5MHz - 30MHz 74dB (µV/m) quasi-peak value 64dB (µV/m) average

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