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TNC-ZB0252

AS-I SAFETY GATEWAY FOR MONITORING THE INPUTS OF SAFETY RELATED BINARY AS-I SLAVES AND FOR DATA TRANSMISSION VIA PROFISAFE. DIRECT INTEGRATION WITH PROFIBUS NETWORKS VIA PROFIBUS TYPE FILE (GSD). CONNECTION OF UP TO 20 AS-I SAFETY MODULES AS-EM/SIL2.

Controller for controlling actuators and for monitoring the damper blade position and duct smoke detectors

- Controller with TROXNETCOM Basic User Software
- Easy and safe commissioning without programming
- Controller with master function for stand-alone operation
- System monitoring
- Automatic recognition of components and their status
- Menu-driven user interface (controller display) for system configuration
- Peripheral equipment can be tested without additional auxiliary equipment

TNC-ZB0252

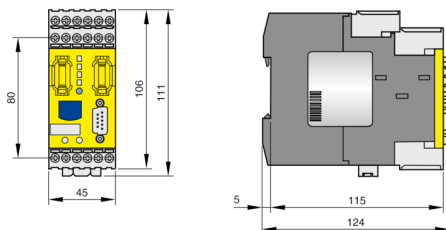
Application

Application

- AS-i gateway TNC-ZB0252/F-Link for monitoring the inputs of safety related binary AS-i slaves
- Compact, safety related gateway between PROFIBUS (DP slave) and AS-Interface
- Core component of 'integrated safety', meant to close the gap in bus-based safety technology'
- Monitoring of the inputs of fail-safe binary AS-i slaves (ASIsafe slaves) and data transmission via PROFIsafe. No need for additional safety related components for AS-Interface (e.g. safety monitor)
- AS-i master according to AS-Interface specification V3.0, master profile M4, to connect up to 31 AS-i slaves, with integrated analog value transmission
- Direct integration with PROFIBUS networks. Optional integration with PROFINET networks via PROFINET/PROFIBUS gateway (IE/PB link) or SIMATIC S7-315 F PN/DP
- Optimised TIA integration in STEP 7 via Object Manager, inclusion in engineering tools by third parties via PROFIBUS type file (GSD)
- On-site diagnosis using LEDs and a display with button
- Assembly change without PG since start-up data is transmitted by PROFIBUS DP master

TECHNICAL INFORMATION

AS-i gateway TNC-ZB0252



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Description	TNC-ZB0252
Supply voltage	24 V DC
Separate voltage supply	Yes
Current consumption	100 mA
Power loss	3 W
Data interface	PROFIBUS DP; RS 485
Supported protocols	ASIsafe (safety at work) protocol, PROFI-safe protocol, PROFIBUS protocol
No. of AS-i slaves	Up to 62
Bus cycle time with 31 slaves	5 ms
Bus cycle time with 62 slaves	10 ms
Max. acceptable relative humidity	10 - 95 %
Ambient temperature	0 to 50 °C
Storage temperature	-40 to 85 °C
Protection level	IP 20
MTTF	36 years
AS-i profile	M4
AS-i specification	V 3.0
Safety integrity level	SIL3 to IEC 61508
Casing dimensions (B x H x T)	45 x 111 x 124 mm
Fixing	On DIN mounting rail

Standard description (characteristics)

AS-i safety gateway for monitoring the inputs of safety related binary AS-i slaves and for data transmission via PROFI-safe. Direct integration with PROFIBUS networks via PROFIBUS type file (GSD). Connection of up to 20 AS-i safety modules AS-EM/SIL2.

- Supply voltage: 24 V DC
- Current consumption: 100 mA
- Operating temperature 0 to 50 °C
- Protection level: IP 20
- Make: TROX GmbH or equivalent
- Type: TNC-ZB0252

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TNC – A1305



1 Component

TNC-A1305	Controller with PROFIBUS DP interface; 1 master
TNC-A1306	Controller with PROFIBUS DP interface; 2 masters
TNC-A1353	Controller with Modbus/TCP interface; 1 master
TNC-A1354	Controller with Modbus/TCP interface; 2 masters
TNC-A1375	Gateway with PROFIBUS DP interface; 1 master
TNC-A2225	Repeater
TNC-ZB0252	AS-i safety gateway
TNC-Z0119	Passive bus termination
TNC-A1146	AS-i tuner (diagnosis module)

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