TROX® TECHNIK
The art of handling air

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TNC-Z0094

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RELAY MODULE WITH 4 DIGITAL INPUTS AND OUTPUTS; SEVERAL MODULES CAN BE INSTALLED IN A ROW

The module is used to connect the control system with the components

- Integral AS-Interface slave
- Monitoring of signal receipt
- With short circuit protection
- Easy wiring due to flat cable insulation displacement connectors ('click and go')
- Certified motor control modules for safe communication up to SIL2
- Special modules for dampers with special functions including redundant voltage supply
- Universal module for the connection of various terminal units such as fire dampers, smoke protection dampers or duct smoke detectors

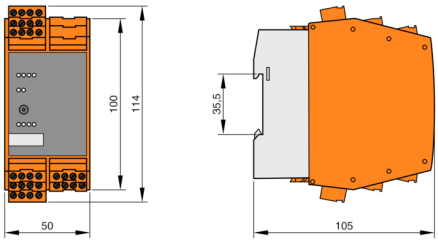
Application

Application

- Module with 4 digital inputs and outputs
- Outputs with relays, galvanically isolated
- Integral AS-Interface slave
- Monitoring of signal receipt
- Providing a watchdog function for digital outputs
- Connection to AS-i network with Combicon connector with screw terminal
- Supply voltage to the module through the AS interface

TECHNICAL INFORMATION

AS-i module TNC-Z0094



Description	TNC-Z0094
Electrical design	4 inputs/4 outputs
Output function	Relay
Supply voltage	26.5 – 31.6 V DC
Current consumption	< 250 mA
Inputs	
Switching	PNP
Sensor voltage supply	AS-i
Voltage range	16 – 30 V DC
Max. current load (total for all inputs)	200 mA
With short circuit protection	Yes
Switching level – high signal 1	> 11 V
Input current high/low	> 6/< 2 mA
Outputs	
Galvanically isolated	Yes
Voltage range	10 – 240 V AC/24 V DC
Max. current load per output	6000 mA
Status display	
Operation	LED green
Function	LED yellow
Error display	LED red
Ambient temperature	–25 to 60 °C
Protection level	IP 20
IEC protection class	
AS-i profile	S 7.0.E
I/O configuration	7 Hex
ID code	0.E Hex
EMC	EN 50295; EN 50178
MTTF	305 years
Casing materials	PA 6.6
Dimensions L × B × H	105 × 50 × 114 mm
Connection	Screw terminals

Standard description (characteristics)

- Module with 4 digital inputs and outputs; several modules can be installed in a row
- Installation with screw terminals on a rail or on the rear wall of a switch cabinet
- Total current consumption from AS-i: < 250 mA
- Ambient temperature: –25 to 60 °C
- Protection level: IP20
- Make: TROX GmbH or equivalent
- Type: TNC-Z0094

1 Module

AS-EPR Module for the connection of four limit switches
AS-EM Module for controlling an actuator
AS-EM/EK Module for controlling actuators on smoke control dampers
AS-EM/SO Module for controlling actuators with special functions
AS-EM/SIL2 Module for controlling actuators with SIL2 certificate
AS-EM/C Module for universal control functions, 2 outputs, 4 inputs
TNC-A005S AS-i safety input module
TNC-Z0094 Relay module 4E/4A
TNC-Z0047 Illuminated push button module