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TNC-A005S

## TNC-A005S

### AS-I SAFETY INPUT MODULE FOR CAPTURING AN ACTUATOR END POSITION, APPROVED FOR APPLICATIONS UP TO SIL2 TO IEC/EN 61508

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

- AS-i Safety input module for capturing the actuator end positions
- Approved for applications up to SIL 2 according to IEC/EN 61508
- Supplied either mounted on the damper blade and wired to the actuator or as a separate unit
- Integral AS-Interface slave
- Monitoring of signal receipt
- Supply voltage to the module through the AS interface

## TECHNICAL INFORMATION

| Description                  | TNC-A005S                                |
|------------------------------|--|
| Electrical design            | 2 inputs                                 |
| Supply voltage               | 26.5 – 31.6 V DC                         |
| Current consumption          | Type 80, max. 200 mA depending on sensor |
| Control category to EN 954-1 | 4  |
| AS-i specification           | V2.1                                     |
| AS-i profile                 | S-7.B.1                                  |
| Short circuit monitoring     | Yes                                      |
| EMC                          | EN 50081-1; EN 50082-2                   |
| Protection level             | IP 67                                    |
| Ambient temperature          | -20 to 60 °C                             |
| Display of AS-i voltage      | LED green                                |
| Display of input             | LED yellow                               |
| Addressing                   | With addressing socket                   |
| Casing dimensions H x B x T  | 80 x 45 x 24 mm                          |
| Fixing                       | On mounting rail                         |

#### Standard description (characteristics)

- AS-i Safety input module for capturing an actuator end position
- Approved for applications up to SIL 2 according to IEC/EN 61508
- Supplied mounted on the damper blade and wired to the actuator
- Integral AS-Interface slave
- Monitoring of signal receipt
- Connection with flat cable insulation displacement connector
- Supply voltage to the module through the AS interface
- Total current consumption from AS-i: ≤ 800 mA
- Ambient temperature: -20 to 60 °C
- Protection level: IP 65
- Make: TROX GmbH or equivalent
- Type: TNC-A005S

# AS – EP



#### **1** Module

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

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## TROX GmbH

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