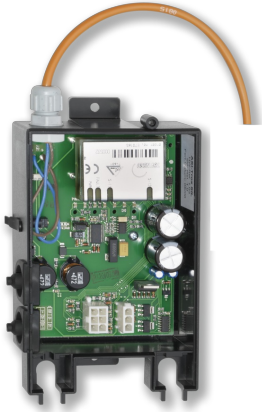


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AS-EM/SIL2

## AS-EM/SIL2

### CONTROL MODULE FOR DAMPERS, APPROVED FOR SIL 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

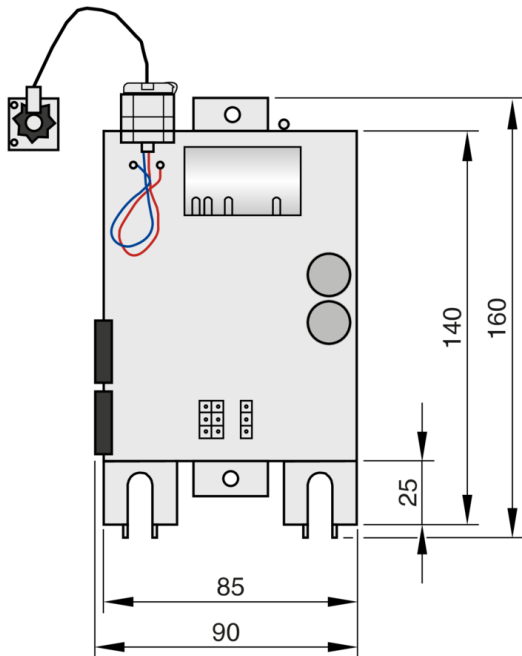


### Application

- Module for the control of smoke control dampers
- Capturing damper blade positions OPEN and CLOSED
- Approved up to SIL2 to IEC/EN 61508
- Integral AS-Interface slave
- Monitoring of signal receipt
- Master can be used to monitor the running time of the damper blade actuator
- Connection with terminals
- Supply voltage of the module and 24 V DC actuator using AS-Interface (2-wire control)
- Plug-in connection for Belimo actuators (factory fitted and wired)

## TECHNICAL INFORMATION

AS-i module AS-EM/SIL2



Description	AS-EM/SIL2
Supply voltage	26.5 – 31.6 V DC
Current consumption	< 400 mA from AS-i
Max. current load per output	340 mA
Max. current load per module	340 mA
Status LED	
AS-i power	1 x green
PeripheralFault	1 x red, blinking
ComError	1 x red, static
Output Q0	1 x yellow (DO0)
Output Q1	1 x yellow (DO1)
Input status LED SI-1	1 x yellow
Input status LED SI-2	1 x yellow
Input status DI0	1 x yellow (DI0)
Input status DI1	1 x yellow (DI1)
Input status DI2	1 x yellow (DI2)
Binary inputs	2 outputs with transistor (typically 24 V DC from AS-i, voltage range 18 – 30 V)
Operating temperature	–20 to 70 °C
Storage temperature	–20 to 75 °C
Protection level	IP 54
Casing material	Plastic
AS-i profile	S-7.B.E (Safety at Work) and S7.A.E (motor module)
EMC	EN 61000-6-2; EN 61000-6-3

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**Standard description (characteristics)**

- Control module for dampers
- To be mounted to dampers and wired to the actuator
- Capturing the damper blade end positions (CLOSED and OPEN) as well as intermediate positions
- Approved for SIL to IEC/EN 61508
- Integral AS-Interface slave
- Monitoring of signal receipt
- Controller can be used to monitor the running time of the damper blade actuator
- Supply voltage for the module and the damper actuator (24 V DC) from AS-i
- Total current consumption from AS-i: 400 mA
- Ambient temperature: -20 to 70 °C
- Protection level: IP54
- Make: TROX GmbH or equivalent
- Type: AS-EM/SIL2

# 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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