TROX® TECHNIK
The art of handling air

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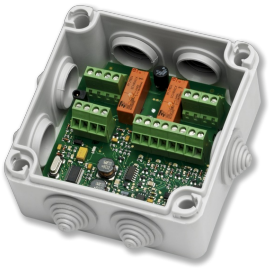

AS-EM/C

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CAN BE USED TO CONTROL 2 FIRE DAMPERS WITH SEPARATE POWER SUPPLY, TO CAPTURE THE DAMPER BLADE POSITIONS, FOR EXAMPLE IN FIRE DAMPERS WITH CONVENTIONAL LIMIT SWITCHES, AND TO CAPTURE SIGNALS FROM DUCT SMOKE DETECTORSÖSEEINRICHTUNGEN

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

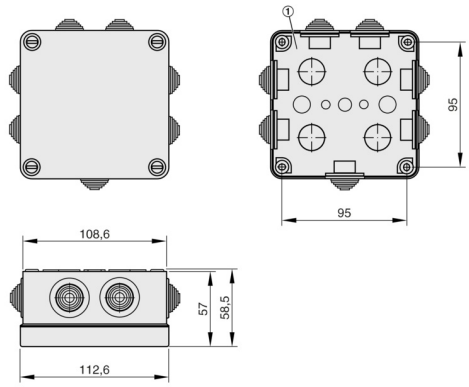
Application

Application

- Universal module with plastic casing
- Can be used to control 2 fire dampers with separate power supply
- Can be used to control the explosion-proof actuator for a fire damper
- Can be used to control the actuator for a KA-EU fire damper with blade opening actuator
- Can be used to capture the damper blade positions CLOSED and OPEN, for example in fire dampers with conventional limit switches
- Connection of up to four dampers with one limit switch each, or two dampers with two limit switches each
- Can be used to capture signals from duct smoke detectors of Type RM-O-VS-D or RM-O-3-D
- Integral AS-Interface slave
- Monitoring of signal receipt
- Voltage supply for actuators with separate 24 V or 230 V AC voltage supply
- Cable connection with terminal strip

TECHNICAL INFORMATION

AS-i module AS-EM/C



① Seen from below

Description	AS-EM/C
Electrical design	4 inputs/2 outputs
Output function	Relay
Supply voltage	26.5 – 31.6 V DC
Current consumption	< 100 mA
Inputs	
Switching	PNP
Sensor voltage supply	AS-i
Voltage range	18 – 30 V DC
Max. current load (total for all inputs)	100 mA
With short circuit protection No	No
Switching level – high signal 1	> 10 V
Input current high/low	> 6/< 2 mA
Outputs	
Galvanically isolated	Yes
With short circuit protection	No
Watchdog	Yes
Max. current load per output	1500 mA
External voltage supply	Yes
Voltage range	10 – 240 V AC/24 V DC
Max. current load per module	6000 mA
Status display	
Switching state	LED yellow
Operation	LED green
Errors	LED red
Ambient temperature	–25 to 50 °C
Protection level	IP 54
AS-i profile	S-7.A.E
I/O configuration	7 Hex
ID code	A.E Hex
EMC	EN 50295; EN 50178
Casing material	PP (polypropylene); flame retardant
Dimensions L × B × H	110 × 110 × 58 mm
Data bits	Data bit: D0; D1; D2; D3
Input function	In1; In2; In3; In4
Output function	O1; O2
Connecting cable core identification	A+: AS-i +, A-: AS-i –, In+: Sensor supply voltage +24 V, In1 – In4: Switching input, sensors 1 – 4, N: common reference point

Standard description (characteristics)

- Universal module with plastic casing
- Can be used to control 2 fire dampers with separate power supply
- Can be used to capture the damper blade positions CLOSED and OPEN, for example in fire dampers with conventional limit switches
- Connection of up to four dampers with one limit switch each, or two dampers with two limit switches each
- Can be used to capture signals from duct smoke detectors of Type RM-O-VS-D or RM-O-3-D
- Integral AS-Interface slave
- Monitoring of signal receipt
- Voltage supply for actuators with separate 24 V or 230 V AC voltage supply
- Cable connection with terminal strip
- Ambient temperature: –25 to 50 °C
- Protection level: IP54
- Make: TROX GmbH or equivalent
- Type: AS-EM/C

AS – EP

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