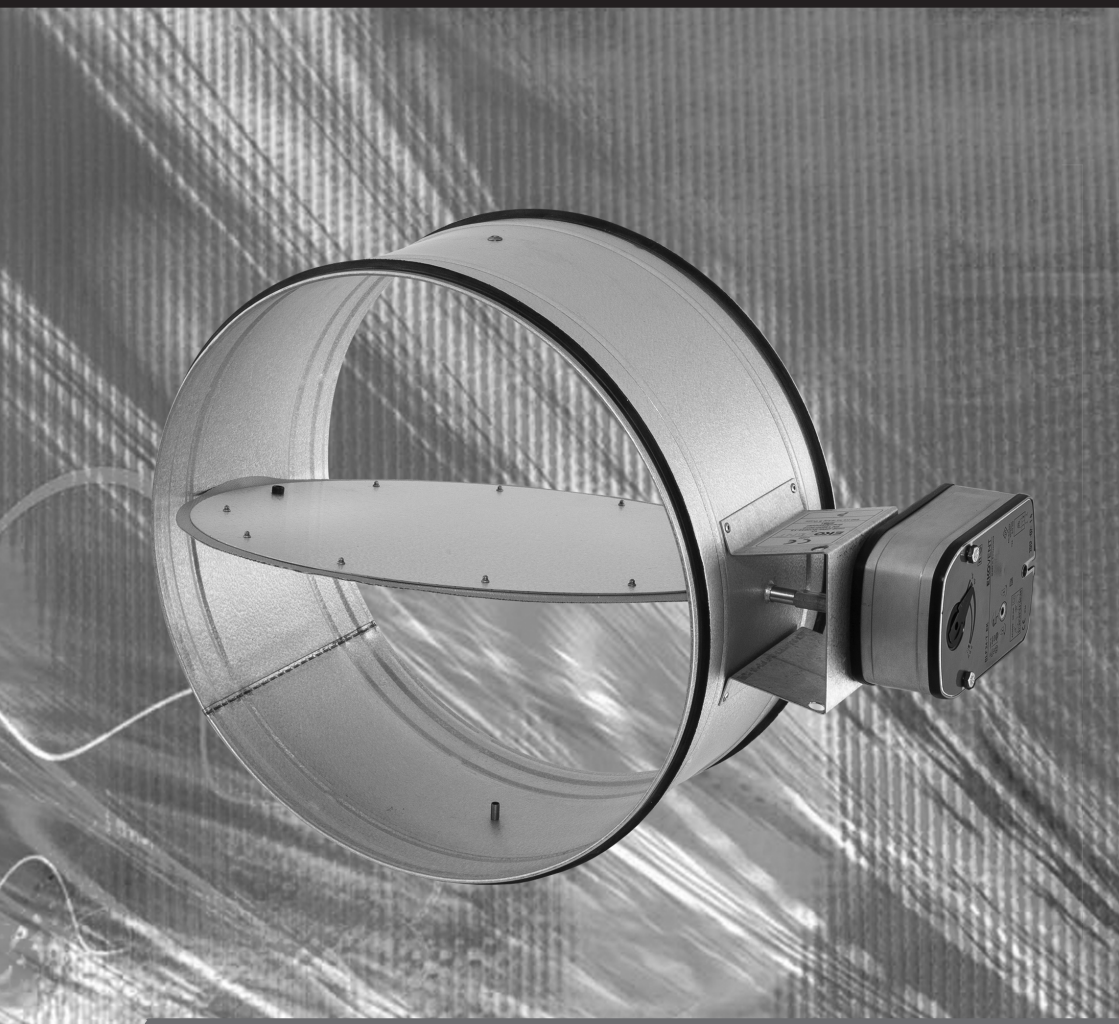
EKOVENT®

Fire Damper EKO-SRB1

CE



Installation, Operating and Maintenance Instructions 2025-06

Table of Contents

Owner of place of manufacture: **EKOVENT AB, Vellinge**

Certification:	**0402 RISE Certification**
Product type description:	**EKO-SRB1**
Approval number:	**SC0848-13**
Fire classification:	**E 60 (ve i<—>o, ho i<—>o) $SC_{20\,000}$**

Product Handling on the Construction Site

Transport

The fire dampers are transported to the construction site with a forklift or crane with a lifting fork. To avoid damage, they must be lifted, not dragged and never lowered hard against the ground.

Reception and inspection of the delivery

The fire dampers are inspected immediately when the delivery arrives at the workplace. The inspection is to check that the delivery corresponds to the order and the consignment note. The approved delivery is acknowledged on the consignment note.

Products with defects or defects must not be installed. Contact the supplier immediately.

Storage

The storage of materials on the site should be planned so that you get the least possible internal transport. The fire dampers must be protected against water and always stored in a dry place. Furthermore, they must be handled so that no mechanical damage occurs to them.

Commissioning

The fire dampers must not be put into use until the entire installation is in operational condition.

EKOVENT AB hereby disclaims all responsibility for:

- Damage due to incorrect transport, handling or storage.
- That the user has failed to inspect, maintain and to a reasonable extent take care of the equipment.
- Personal injury or property damage as a result of using the product in violation of the instructions and specifications in this manual.

EKOVENT's liability shall be limited to repair or replacement of faulty equipment part.

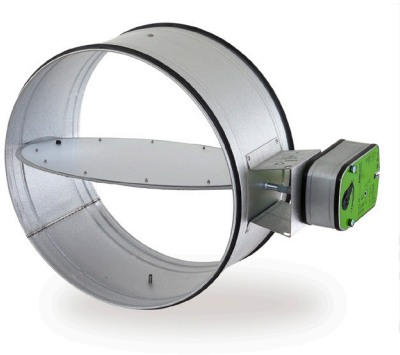
General Assembly

Mounting

In order for the CE-marking to apply, assembly must always take place in accordance with the supplied assembly instructions.

In order to comply with Swedish practice, the facility should be connected to a monitoring system and equipped with a smoke detector that indicates an alarm and activates the closing of the damper.

Other details such as flexible wall sleeve and wall to damper caulking are ordered separately. The hole size is always the damper diameter + 55 mm.

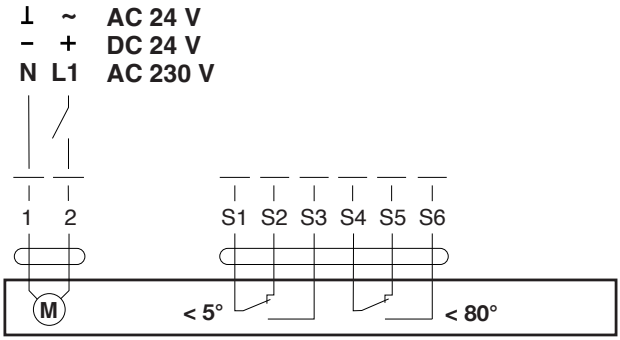


4

Electrical connection

To be performed by a qualified electrician according to drawings and current wiring diagram.

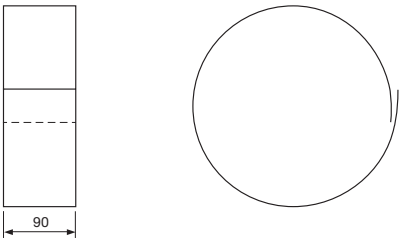
Wiring diagram actuator



Mounting Accessories EKO-SRB1

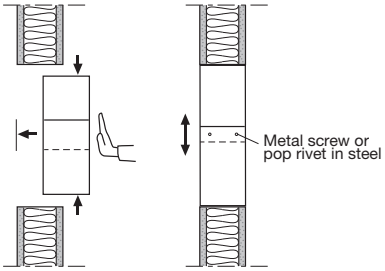
Flexible wall sleeve EKO-GIS

Installation



Mounting instructions EKO-SRB1

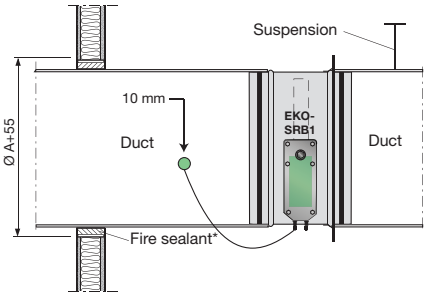
Installation in flexible wall sleeve EKO-GIS

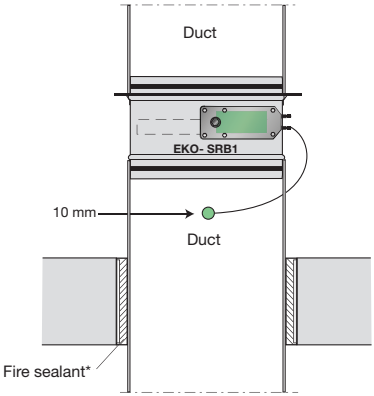


1. Squeeze the wall sleeve EKO-GIS and insert it into the hole.
2. Lock the wall sleeve with a sheet metal screw or pop rivets in the overlap.

Assembly Instruction EKO-SRB1

Supporting construction - wall or floor in fire resistance class EI 60.





6

Important! The smoke damper should always be installed with the blade shaft horizontal.

1. The duct system should be suspended and insulated in accordance with the fire resistance of the supporting construction in which the hole is made (EI 60). Insulation of the ventilation duct must be done in accordance with "Installationsbrandskydd Ventilation – Rör" section 21.3.4 (ISBN: 978-91-633-1723-1) corresponding to the fire resistance of the supporting construction in which the hole is made (EI 60).
2. Mount the damper in the duct.
   – No gaps between the damper and the supporting construction.
   – The damper blade shaft must always be installed horizontally.
3. Mount the thermal sensor with the sensor probe in the air flow, ensuring that it does not obstruct the movement of the damper blade.
4. The following minimum dimensions must be observed when mounting
   – Minimum distance between dampers: 200 mm.
   – Minimum distance to supporting construction: 75 mm.

   Fire sealing must be done using an approved method that complies with the relevant fire classification, e.g. EKO-GIS and fire protection sealant.

Operation and Maintenance

Operation

EKO-SRB1 is a CE-marked damper designed for fire separation in heating, ventilation, and air conditioning installations within buildings. EKO-SRB1 comes equipped with an electric safety actuator complete with a thermal sensor, which automatically disconnects power if the temperature exceeds 72°C.

The facility must be equipped with a smoke detector that triggers an alarm and closes the fire damper. This smoke detector must be connected to monitoring systems such as EKO-MKE/SKE, EKO-KE, EKO-TME/TSE, EKO-MME/SME, EKO-PRO-M/S, or their equivalents.

An automatic function check should occur every 48 hours, or at more frequent intervals. Any malfunctions should be indicated on the display.

Maintenance

External and Internal Control

Ensure to inspect the electrical wiring for actuators, end position contacts, and smoke detectors, as well as the damper cover, at least every three years to prevent any foreign objects from obstructing the movement of the damper blade. Also, check the attachment of the actuator, damper blade, and sealing strip to ensure no damage has occurred. Additionally, verify that the corrosion protection is intact.

Function Control

Automatic: See above.

Manuel: Manual function check can be performed from the central unit menu. During installation, manual function check can also be performed on the respective slave unit (applies to EKO-MKE/SKE, EKO-TME/TSE, EKO-MME/SME, EKO-PRO-M/S).

The manual function check can be performed by pressing the test button for the automatic function check, located on the front of the monitoring unit (applicable to EKO-KE). Powerless damper closes.

During operation, ensure that the damper is fully open. During testing, confirm that it closes and opens completely. In the event of a power failure, ensure that the damper closes completely. If not, refer to the instructions for monitoring systems such as EKO-MKE/SKE, EKO-KE, EKO-TME/TSE, EKO-MME/SME, EKO-PRO-M/S.

Cleaning

We advocate preventive maintenance of the damper according to the facilities needs. Clean the damper blade and damper (inside) with a brush, vacuuming or wiping. Water or other liquids must not be used.

Note!

After inspection, the fire damper must be left in normal working position.

⚠ **Warning!**

Never keep your hands inside the damper when it closes. Risk of crushing injuries.

Spare parts list

Actuator, see type designation of the actuator.

Declaration of Performance

CE

Product type:
Fire Damper EKO-SRB1
Type and batch number according to product label.

Intended use:
Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 60 min according to EN 15650.2010

Manufacturer:
EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

Certificate:
Rise, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

EC Certificate of Conformity No 0402-CPR-SC0844-13.

Size	**Type**	**Classification**
Ø 100 mm till Ø 630 mm	Horizontal duct	E 60 (ve i <-> o) S
	Vertical duct	E 60 (ho i <-> o) S
		Classification according to EN 13501-3
Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	10 200 cycles - Pass	EN 15650:2010

The performance of SRB1 is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:

Vellinge 2020-11-05, Michael Brandström, Product Manager

Declaration of Performance

CE

Product type:
Fire Damper EKO-SRB1-R/-C
Type and batch number according to product label.

Intended use:
Fire damper to be used in conjunction with fire separating elements to maintain fire compartmentation of at least 60 min according to EN 15650.2010

Manufacturer:
EKOVENT AB, Mejselgatan 7, 23532 Vellinge, www.ekovent.se

Certificate:
Rise, nr 0402, has performed type testing, initial inspection of the manufacturing plant and factory production control (FPC) under system 1.

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Size	**Type**	**Classification**
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Nominal activation conditions/sensitivity: - Sensing element load bearing capacity - Sensing element response temperature	Pass	ISO 10294-4
Response delay (response time): - Closure time	Pass	EN 1366-2
Operational reliability: - Cycling	Pass	EN 1366-2
Durability of response delay: - Sensing element response to temperature and load-bearing capacity	Pass	EN 1366-2
Durability of operational reliability: - Open and closing cycle tests	20 200 cycles - Pass	EN 15650:2010

The performance of SRB1-R/-C is in conformity with the declared performance above.
This declaration of performance is issued under the sole responsibility of EKOVENT AB.

Signed for and on behalf of the manufacturer by:

Vellinge 2025-03-05, Ljubomir Doslic, Product Manager

Notes:

Notes:

EKOVENT®

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