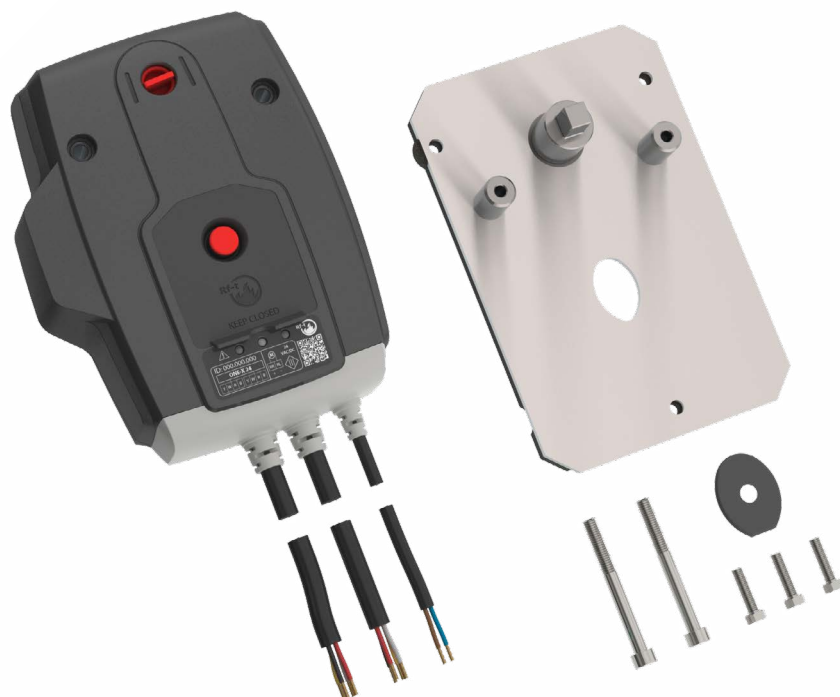


TRUSTED PARTNER OF



ONE-X KIT

Spring return actuator with integrated communication module.



ONE-X Features

Spring return actuator with integrated field module.

- ▶ Spring return fire damper actuator
- ▶ Fusible link 72°C
- ▶ 24V or 230V versions
- ▶ 3 cables: bus in, bus out and power
- ▶ 3 LEDs: damper status, bus status, errors
- ▶ IP45 casing
- ▶ Available in option with wire-to-wire connectors



TRUSTED PARTNER OF



Rf-Technologies

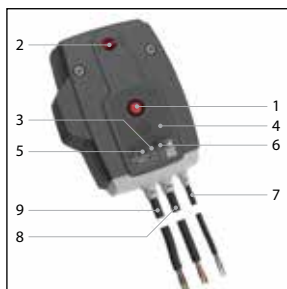
ONE-X KIT

Spring return actuator with integrated
communication module.

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PRODUCT PRESENTATION



Option: connector



The ONE-X is a spring return actuator with integrated communication module designed to simply operate Rf-t fire dampers of all sizes, automatically or remotely. When powered, the actuator moves the damper blade into its stand-by position. When the power is interrupted or when the temperature in the duct exceeds 72°C, the internal armed spring brings the damper blade back into its safety position. The motor can be reset manually by using a standard 9V battery.

The integrated communication module enables monitoring and remote control of the fire damper using a ZENiX controller. The status of the fire damper can be read over the bus, even when power is not connected to the fire damper. Three LEDs on the ONE-X indicate the status of the damper, bus communication, and any error messages.

The ONE-X is available in two versions: 24 V and 230 V. As an option, connectors can be provided on the two bus cables and the power cable.

PATENT PENDING

1	Unlocking button	6	Orange LED: Error message
2	Blade position indicator	7	Power
3	Red LED: Status	8	Bus cable
4	Battery compartment	9	Bus cable
5	Blue LED: Communication	10	In line wire-to-wire connector IP68

LIST OF PARTS

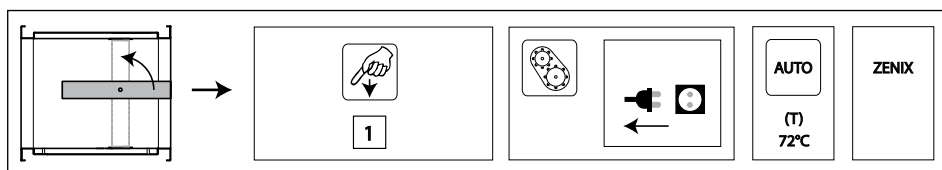
	Description	Code	Quantity
1	Actuator	ONE-X 24 / ONE-X 230	1
2	Fastening screw motor	DIN 912 M6x65	2
3	Membrane	PLAME-D218	1
4	Base plate motor	FE-VOOR-265	1
5	Axis motor	PLAME-D027	1
6	Fastening screw base plate	DIN 933 M6x20	3
7	Fusible link	FUS72 ONE	1
8	KIT label (yellow)	ETIK-D042	1

DETAILED CHARACTERISTICS

ONE	Nominal voltage	Running time
<p> Black Red White Yellow BUS BUS Blue Brown - + 24VDC ~ 24VAC N L 230VAC </p>	ONE-X 24: 24VAC/DC -10%/+20% ONE-X 230: 230VAC ±15%	motor: (Cabled) <75 sec motor: (Battery 9V) <85 sec spring: 7Nm <30 sec
	Power consumption	Noise level
	4,2W 24VAC/DC: 0,28W 230VAC: 0,57W	motor: max 64 dB (A) spring: max 67 dB (A)
	Switches	Degree of Ingress Protection
Wire diameter: 0,5 mm ² – 4 mm ² Cable diameter: 6 – 14 mm		IP 54
		Cable cross-section
		0,75 mm ²

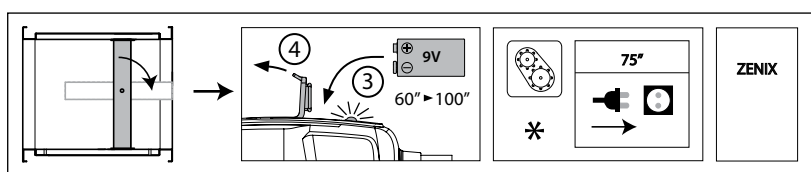
OPERATING MECHANISM ONE-X

Unlocking



- Manual unlocking: shortly press the unlocking button (1) once.
- Remote unlocking: by interrupting the power supply.
- Automatic unlocking: the fusible link reacts as soon as the temperature in the duct reaches 72°C.
- Via ZENiX controller.

Resetting



- Motorised resetting
 - Via ZENiX controller.
 - By applying voltage during first use (*).
- Manual resetting
 1. Open the battery compartment (4) and press a 9V battery against the contact springs. Hold this position until the red LED (3) emits a continuous light.
 2. Control whether the indicator (2) indicates that the damper blade is open :
 - Remove the battery.
 3. Close the battery compartment.
- LED indications

Red (status):

 - Blinking 2x/second: the temperature sensor in the casing has detected a temperature above 72°C.
 - Blinking 1x/second: reset active.
 - Blinking 3x/second: the used battery is empty.
 - Continuously lit: reset complete.
 - Off: the ZENiX controller has unlocked the spring return actuator, or no supply voltage is available.

Yellow (error messages):

 - Blinking 1x/second: time-out alarm; spring return actuator has not reached the open or closed position within the set time. (ZENiX controller)
 - Continuously lit: fusible link alarm active.
 - Off: no time-out or fusible link alarm, or no supply voltage available.

Blue (bus):

 - Continuously lit: actuator in freeze mode, which means the spring return actuator is not responding to any command from the ZENiX controller except unfreeze.
 - Blinking: bus communication active.
 - Slow blinking (long on, short off): spring return actuator in Service mode.
 - Off: no communication, or no supply voltage available.
- Service mode:
 - Meaning: When the ONE-X is in Service mode, no fusible link alarm will be sent to the ZENiX controller.
 - Activating Service mode: by presenting briefly the battery in the ONE-X. The blue LED will start blinking slowly (long on, short off).
 - Duration of Service mode: 5 minutes
 - Operating from open position:
 - Press the unlocking button (1) -> close
 - Touch battery -> open
 - Operating from closed position:
 - Touch and hold battery -> open
 - Press the unlocking button (1) -> close

Caution:

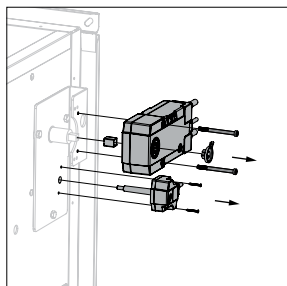
- ❗ It is sufficient to briefly insert the battery (touch the contacts) in the ONE-X to rearm it when the ONE-X is powered, unless the ZENiX controller commands the damper to be open or it is the first time the ONE-X is activated.
- ❗ The power supply of this actuator cannot be individually replaced. If the cable is damaged, the whole unit must be discarded and replaced.
- ❗ The housing of the mechanism contains a temperature sensor. When the temperature in the housing exceeds 72°C, the mechanism unlocks. The LED flashes twice per second. When the temperature drops below 72°C, the mechanism can only be reset in a motorised manner after a manual reset (with a battery).
- ❗ The end of range switches need 1 second after operation to adopt a stable position.

Safety regulations:

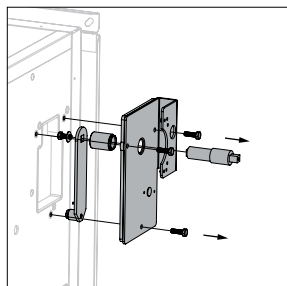
- Do not use the ONE-X for any application other than the specified applications, in particular not in aircraft or other airborne vehicles.
- The company that purchases and/or installs the ONE-X is fully responsible for the correct operation of the entire system. Only authorised specialists may perform the installation. All rules and regulations, including statutory regulations, must be observed during installation.
- This device contains electrical or electronic components and must not be disposed of as household waste. All locally applicable regulations and requirements must be strictly observed.

DISMANTLING THE PREVIOUS MECHANISM

Type BFL(T) and BFN(T) on CR2/CU2/CU4/CU2-15:

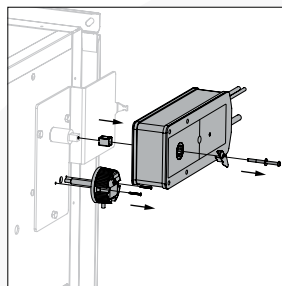


1. Unlock the motor by interrupting the power supply.
2. Loosen the fixing screws of the motor and remove the old motor.
3. For types BFLT/BFNT: Unscrew the thermo-electric fuse and remove it.

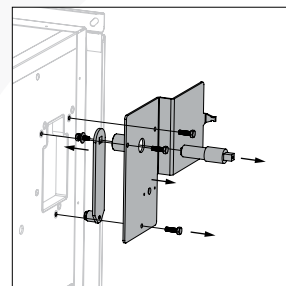


4. Loosen the three screws and remove the base plate. Set aside the operating arm, screw and washer to use on the new base plate.

Type B(L)F(T) on CR2/CU2/CU4/CU2-15:

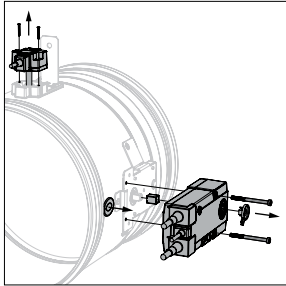


1. Unlock the motor by interrupting the power supply.
2. Loosen the fixing screws of the motor and remove the old motor.
3. For type B(L)FT: Unscrew the thermo-electric fuse and remove it.



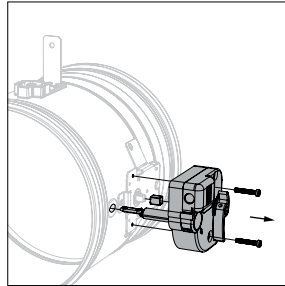
4. Loosen the three screws and remove the base plate. Set aside the operating arm, screw and washer to use on the new base plate.

Type BFL(T)/BLF(T) on CR60/CR120/CU-LT(1s):

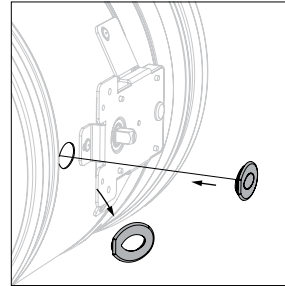


1. Unlock the motor by interrupting the power supply.
2. Loosen the fixing screws of the motor and remove the old motor.
3. For types BFLT/BLFT: unscrew the thermo-electric fuse and remove it.
4. Remove the old membrane.

Type MFUS(P) on CR60/CR120/CU-LT(1s):

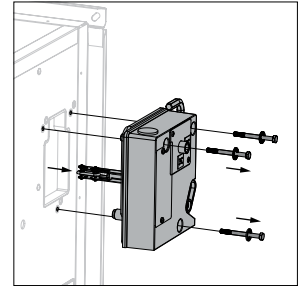


1. Unlock the existing mechanism by pressing the unlocking button.
2. Loosen up the two fixing screws and dismantle the mechanism.



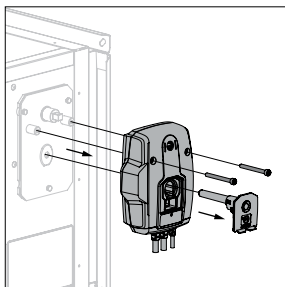
3. Replace the old membrane by the new (unperforated) one.

Type CFTH on CR2/CU2/CU4/CU2-15:



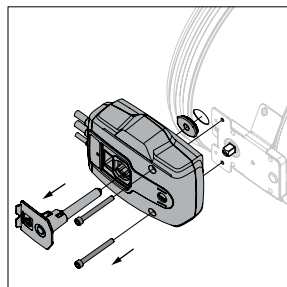
1. Unlock the existing mechanism.
2. Loosen up the three fixing screws and dismantle the mechanism.

Type ONE on CR2/CU2/CU4/CU2-15:



1. Unlock the motor by interrupting the power supply.
2. Loosen the fixing screws of the motor and remove the old motor.

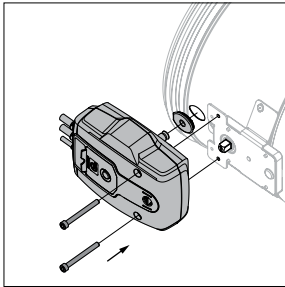
Type ONE on CR60/CR120/CU-LT(1s):



1. Unlock the motor by interrupting the power supply.
2. Loosen the fixing screws of the motor and remove the old motor.

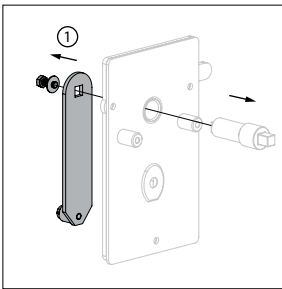
MOUNTING THE NEW MECHANISM

On CR60/CR120/CU-LT(1s)

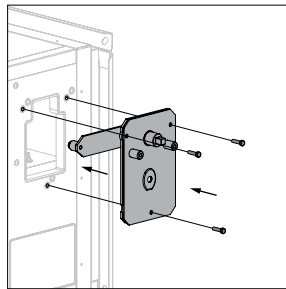


1. Put the new membrane in place.
2. Make sur the damper blade is closed.
3. Fasten the ONE on the damper with the supplied (2) M6 screws.
4. Connect the motor according to the wiring diagram.
5. Test the functioning of the motor.
6. Apply the label 'KIT' to the motor.

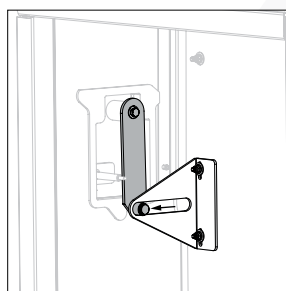
On CR2/CU2/CU4/CU2-15



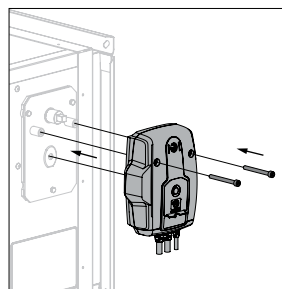
1. Retrieve the operating arm, bolt and washer of the old mechanism and mount them with the newly supplied axis on the base plate (use universal grease around the axis).



2. Fasten the base plate with the 3 supplied screws. Please use the indicated holes.



3. Caution: make sure the operating arm is fitted in the transmission arm.



4. Make sur the damper blade is closed.
5. Fasten the ONE on the damper with the supplied (2) M6 screws.
6. Connect the motor according to the wiring diagram.
7. Test the functioning of the motor.
8. Apply the label 'KIT' to the motor.

If the product is manipulated in any other way than described in this manual, Rf-Technologies will decline any responsibility and the guarantee will immediately expire!

AMS/Rf-t Partnership



Rf-Technologies

AMS Air Movement Supplies has teamed up with **Rf-Technologies**, one of the largest manufacturers in Europe, to promote their extensive range of CE marked fire and smoke rated dampers.

The company employs 170 people in its two sites in Belgium (headquarters) and Slovakia. **Rf-Technologies** solutions are designed and approved for all types of walls: vertical and horizontal, in concrete or lightweight materials. They are compliant with the most stringent local and European standards. In its pioneering role in the field of compliance with international standards, **Rf-Technologies** has been testing its products according to the European test criteria since 2004.

This union of resources between **AMS** and **Rf-t** will offer more choice than any other supplier or distributor in Ireland and the UK. **Rf-t** are the first to bring intelligent motors to the Irish market, eliminating the need for an additional field module. Its wiring, along with many other progressive features, has erased the need for costly engineers.

For any queries, please contact us at sales@airmovementsupplies.ie.

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*"He that succeeds makes an
important thing of the
immediate task."*

— William Feather

