

# RCTU

Damper module



FIRE SAFETY



# MRB3 TRE

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## Quick facts

- Input for bus and power supply. For basic connection, there are also extra terminals for additional connections.
- Input for 0–10 V
- Input for smoke detector
- Input for 24 V actuator
- A LED shows the module's operation mode.
- Regulative dampers can be locally controlled
- The modules can advantageously factory-installed on the damper.

## Function description

The RCTU is an enclosed damper module intended for 1 damper and 1 smoke detector, and an input for 1–10 V control. When a smoke detector signals a fire, the damper is closed that is connected to the module.

The RCTU is intended for use in a network together with a central RCTC panel for controlling and monitoring. At the central panel, status can then be reported and manoeuvring can be ordered. The central panel can also read fire alarms and place the module in fire alarm mode.

The module communicates via a common three-wire cable for 24 V AC/DC and bus communications. The damper is normally manoeuvred every 48 hours. This is controlled via the module's internal program or via communications.

When powering up, checks are also made of whether a two-position or regulative damper is connected.

## Visual SIOX form

As an aid in commissioning and troubleshooting, there is a process image for each damper module.

## Regulative dampers

Regulative dampers can be locally controlled with 0–10 V or via the network.

## Addressing

Upon delivery, the damper module's address is set to 1. Upon connection to an RCTC, the addressing command is started. Thereafter the button is pressed for each RCTU to activate the unit. When connecting, the number of addressed dampers is displayed.

## Connections

RCTU has:

- Input for bus and power supply. For basic connection, there are also extra terminals for additional connections.
- Input for 0–10 V
- Input for smoke detector
- Input for 24 V actuator

## Specifications

### Damper module RCTU

- Accessories
- Strain relief

The modules can advantageously factory-installed on the damper. The damper will then be fully wired and only connections to the network and power supply are necessary.

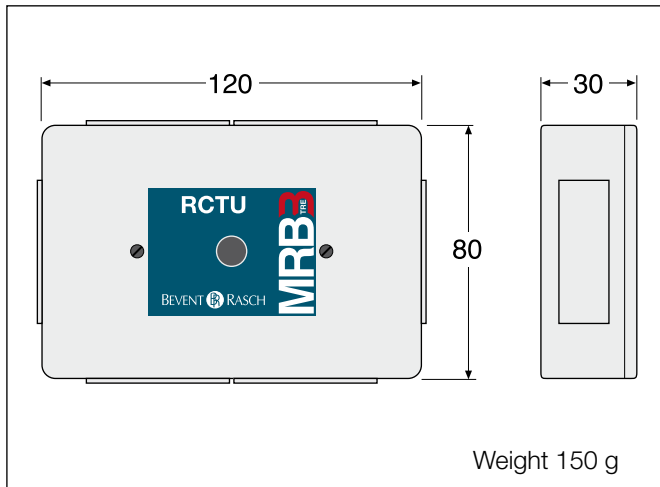
## Operation indication

A two-colour LED (red/green) shows the damper module's operation mode.

Operation mode	Blink sequence
StandBy	
Standby and communications with RCTC	
Fire alarms	
Damper fault/ Service alarm smoke detector/ Short-circuited damper output	
Manoeuvring/ Function test – damper closes	
Manoeuvring/ Function test – damper opens	



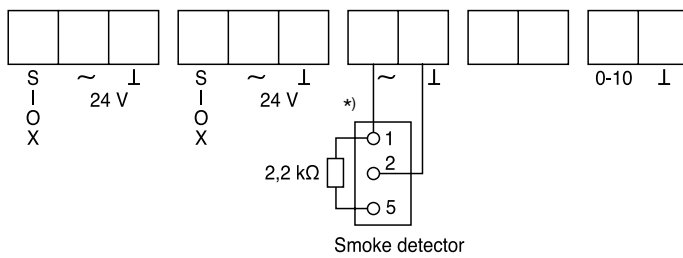
## Dimensions and weight



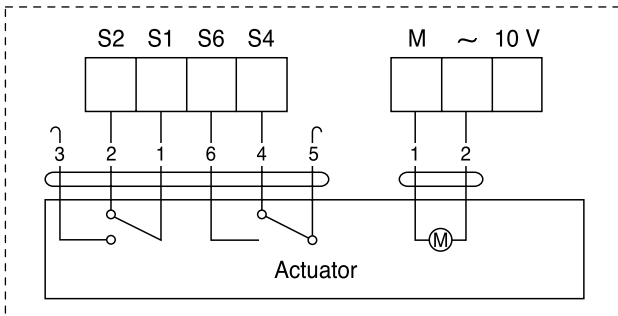
## Technical data

Terminal voltage:	24 V AC/DC +-10%
Power consumption:	< 1 V A (excl. actuator)
Actuator:	BLF24 (-SR), BRL 7VA BF (-SR), BRS 10VA
Enclosure class:	IP 44
Ambient temperature:	-20° – +55°C
Termination resistance	
Smoke detector:	2,2 kOhm
EMC:	EN 61000-6-3 (2007) EN 61000-6-2 (2005)

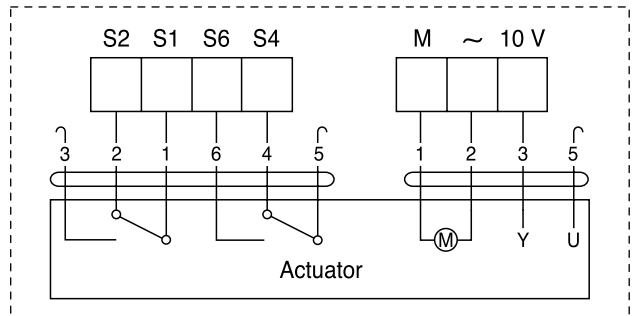
## Wiring diagram



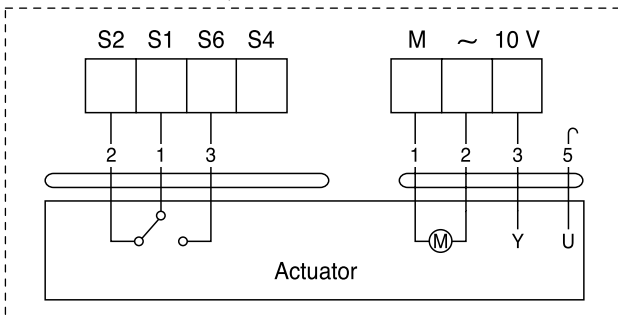
### Alt. 1: BLF24, BF24



### Alt. 2: BF24-SR, BRS24



### Alt. 3: BLF24-SR, BRL



\*) The 2.2 kΩ termination resistor is plugged into the smoke detector.

If no detector input is connected, short the terminals with a 2.2 kΩ resistor.

On delivery, the detector input is short-circuited with a 2.2 kΩ resistor.