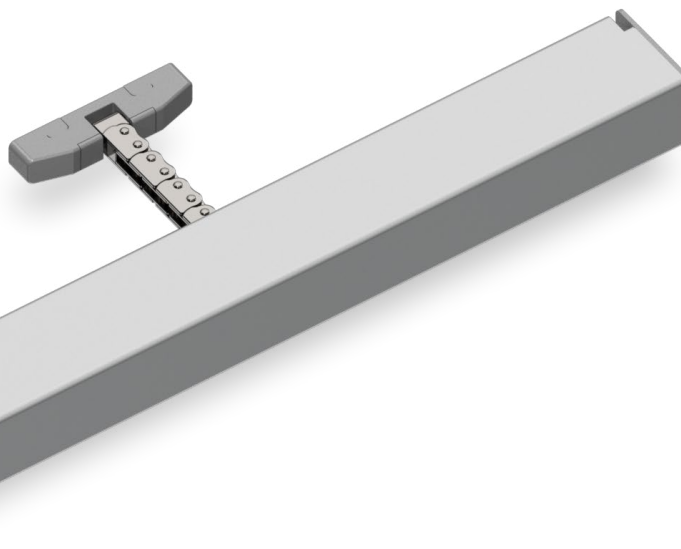


 **NEXT DAY DESPATCH**
 **UK IMPORTER SINCE 1996**
**100 SERIES COMPATIBLE**
**IP40 RATED**
**SYNCHRO OPTION**



-  **Chain**
-  **24V or 230V**
-  **Up to 300N/30 kg**
-  **130mm to 400mm **ADJUSTABLE****

**DO NOT USE FOR SMOKE VENTILATION** 

If you do require smoke control products or advice – please call us 

## ABOUT THIS ACTUATOR

The UCS Sirius uses a double link, central exit, articulated stainless steel chain with an aluminium case cover and 'invisible' brackets. It has mounting bracket options to suit most window types and is painted in black, white or silver/grey – colour options or alternative aluminium covers on request. The low profile design and high power to size ratio make this an ideal choice for concealed or built-in installations.

## PRODUCT HIGHLIGHTS

- ✓ High performance to size ratio
- ✓ Manual closing position regulation not required
- ✓ Quick release sash/chain clip for easy cleaning
- ✓ Invisible 'slide in & lock' actuator brackets
- ✓ Electronic stop in case of overload
- ✓ CE marked device

## SUITABLE FOR...

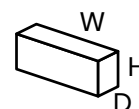


## COLOUR OPTIONS

-  Black
-  White
-  Grey
-  Bespoke colours on request
-  Alternative cover options on request

## ACTUATOR DIMENSIONS

**WIDTH:** 423mm  
**HEIGHT:** 39mm  
**DEPTH:** 51mm



**TECHNICAL DATA >>>**

**PRODUCT CODES >>>**

## 24 HR TECHNICAL DATA

|                                           | UCS Sirius 24Vdc                                   | UCS Sirius 230Vac |
|-------------------------------------------|----------------------------------------------------|-------------------|
| Voltage Supply                            | 24Vdc                                              | 230Vac            |
| Power                                     | 19 Watts                                           | 32 Watts          |
| Thrust Force                              | 300N/30 kg                                         | 300N/30 kg        |
| Traction Force                            | 1200N/30 kg                                        | 1200N/30 kg       |
| Stroke Adjustment                         | 130/200/300/400mm - adjustment via dip switches    |                   |
| Minimum Window Height (actuator to hinge) | 900mm. Less than 900mm requires a pivoting bracket |                   |
| Absorbed Current                          | 0.8 amps                                           | 0.14 amps         |
| Operating Temperature                     | -10°C to +60°C                                     | -10°C to +60°C    |
| Time Rating                               | 30%                                                | 30%               |
| Limit / Safety Stop                       | Electronic                                         | Electronic        |
| Cable Length (standard)                   | 1.5m                                               | 1.5m              |
| Cable Length (synchro)                    | 2.9m                                               | 2.9m              |
| Wiring (standard)                         | 2 Core                                             | 3 Core + Earth    |
| Wiring (synchro)                          | 4 Core                                             | 5 Core + Earth    |
| Open / Close Speed                        | ~ 7mm/s                                            | ~ 7mm/s           |
| Protection Class                          | IP40                                               | IP40              |
| Synchronisation Option                    | Yes                                                | Yes               |
| Parallel Connection                       | Yes                                                | Yes               |

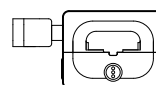
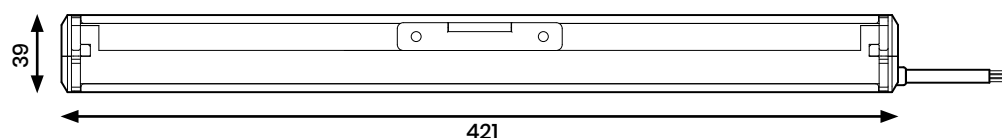
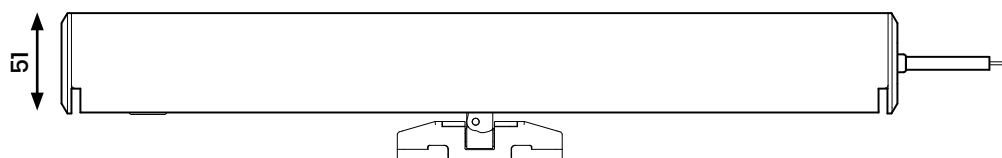
## WHAT'S IN THE BOX?

- ✓ UCS Sirius Actuator
- ✓ Front Bracket Kit
- ✓ Installation and User Guide
- ✓ Safety Plate

## SYNCHRONISATION OPTIONS Available on request

Equipped with an integrated speed synchronization control board for the installation of more than one actuator on the same vent, avoiding any external control panel (max. 4 actuators + E-Lock).

## DIMENSIONS (mm)

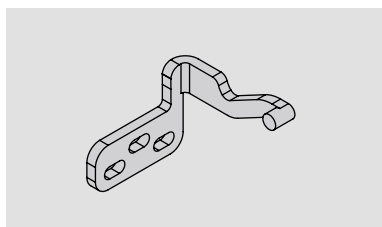


PRODUCT CODES >>>

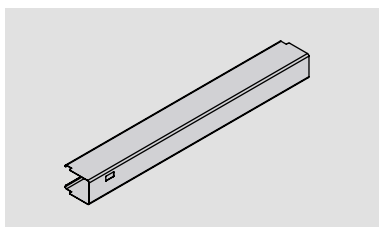
## BRACKET & ACCESSORY CODES

Installation without brackets is possible for windows with pivoting hinges only if the window height is at least 900mm.

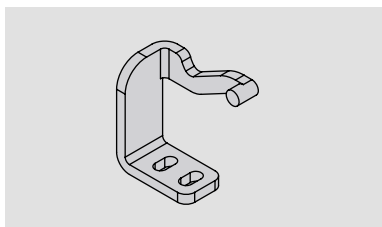
### OUTWARD OPENING



**Front Bracket Kit**  
INCLUDED

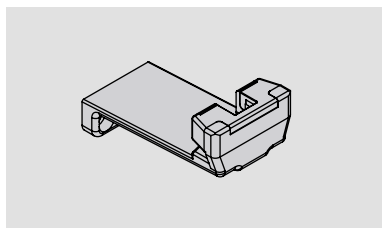


**Cover for Outward Opening**  
Black / White / Grey (anodized)  
Available on request

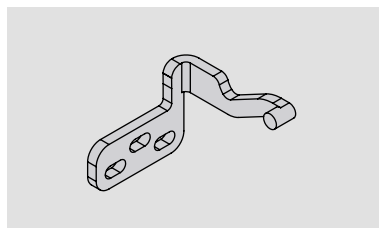


**L Pivoting Bracket Kit**  
Steel. Available on request

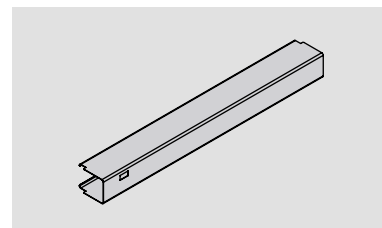
### INWARD OPENING



**Z Bracket Kit (inward opening)**  
Available on request



**Back Bracket Kit (inward opening)**  
INCLUDED



**Cover for Inward Opening**  
Black / White / Grey (anodized)  
Available on request

## ACTUATOR CODES (TBC)

### UCS Sirius Actuator 24V

Black ACUC-SIR-024V-BLXX  
White ACUC-SIR-024V-WHXX  
Grey ACUC-SIR-024V-SIXX

### UCS Sirius Actuator 230V

Black ACUC-SIR-230V-BLXX  
White ACUC-SIR-230V-WHXX  
Grey ACUC-SIR-230V-SIXX

### UCS Sirius Synchro 230V

Black ACUC-SIR-230V-BLXX  
White ACUC-SIR-230V-WHXX  
Grey ACUC-SIR-230V-SIXX

230V

## RELATED PRODUCTS AND SERVICES

24V



VENTEC 100  
SERIES CONTROL



VENTEC DS  
SWITCH



230V TF SERIES  
CONTROL



PROJECT  
COMMISSIONING



INSTALLATION  
& MAINTENANCE



24V TF SERIES  
CONTROL



WEATHER  
STATION

## WINDOW OPERATION FORCE CALCULATION

### TOP, BOTTOM OR PIVOT HUNG WINDOWS

The formula for calculating the load the actuator has to move for top hung, bottom hung and pivot windows is the following:

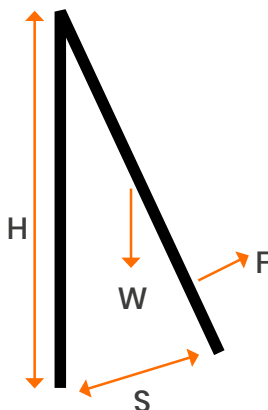
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

**F** = Force required (N)

**W** = Weight of the window (kg)

**S** = Opening stroke (mm)

**H** = Height of the window (mm)



EXAMPLE: 60 kg Weight / 1000mm Height / 500mm Stroke

$$F = 60/2 \times 500/1000 \times 10$$

$$F = 30 \times 0.5 \times 10$$

$$F = 150 \text{ newtons}$$

**IMPORTANT:** For installation on a pivoting window the given height is to be considered H/2.

**IMPORTANT:** The indicated loads do not include the force exerted by wind or other extreme weather conditions. If the actuator is to be installed in areas that may be subject to these conditions, contact our technical department to discuss your requirements.

The actuator rotation angle is usually half the height of the opening angle of the window. Check that there are no obstacles to the rotation of the actuator in order to prevent damage to it.

For actuators with non pivoting brackets, the height of the window must not be below a certain height (see individual product details) in order to prevent excessive chain bending. Please contact our sales support team for more details.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

### DOMES AND SKYLIGHTS

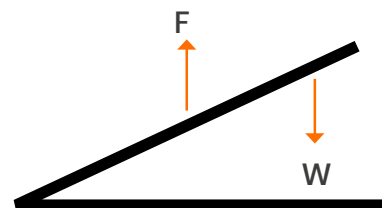
**IMPORTANT:** When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

The formula for calculating the load the actuator has to move for domes and skylights is the following:

$$F = \frac{W}{2} \times 10$$

**F** = Force required (N)

**W** = Weight of the window (kg)



EXAMPLE: 110 kg Weight / 1000mm Height / 500mm Stroke

$$F = 110/2 \times 10$$

$$F = 55 \times 10$$

$$F = 550 \text{ Newtons}$$

**SKYLIGHTS:** The opening can be hung on one side or have a central axis of rotation. In the latter case, you have to consider the distance between the axis of rotation and the point of application of the actuator as the frame height. A Velux type of opening on a horizontal roof or roof sloping up to 30° horizontally weighs 50% on the hinges and 50% on the actuator. In the case of centre rotation, the weight is practically nothing and is determined only by the windows frictions.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

**! IMPORTANT:** If the window frame is accessible, or installed at a height of less than 2.5m from the ground, an emergency stop system must be fitted to prevent the crushing or entrapment of clothing or body parts inserted between the moving and fixed elements of the window frame.