

**NEXT DAY
DESPATCH****SOLE UK
IMPORTER****100 SERIES
COMPATIBLE****IP40
RATED****IP42
OPTION****BMS
OPTION****TYPE****Dual Push Point Chain****VOLTAGE****24V or 230V****THRUST****600N/60 kg****STROKE****500mm****DO NOT USE FOR
SMOKE VENTILATION**If you do require smoke control
products or advice – please call us

ABOUT THIS ACTUATOR

The UCS Twin Quasar electric chain actuator with two stainless steel double-link chains is available in 24V and 230V models. An in-built electronic circuit allows synchronized control of the two internal motors. Electronic stop in the intermediate positions in case of overload. Parallel connection is possible.

Available in anodized silver aluminium casing or painted on request.

PRODUCT HIGHLIGHTS

- ✓ Very high thrust performance: 600N
- ✓ Quick and easy installation since the manual closing position is not required.
- ✓ Low noise operation
- ✓ Integrated speed synchronisation control board
- ✓ BMS input available (24V only)
- ✓ F-Signal version on request (24V only)
- ✓ Protection Class IP42 available (24V only)
- ✓ CE marked device

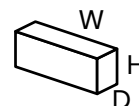
SUITABLE FOR...



COLOUR OPTIONS

- Black
- White
- Anodized Silver
- Bespoke colours on request

ACTUATOR DIMENSIONS



WIDTH: 1422mm

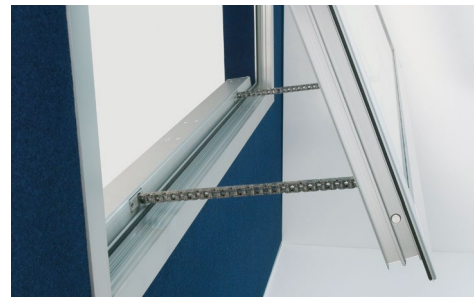
HEIGHT: 37mm

DEPTH: 69mm

TECHNICAL DATA >>>**PRODUCT CODES >>>**

24 HR SERVICE TECHNICAL DATA

	UCS Twin Quasar 24V	UCS Twin Quasar 230V
Voltage Supply	24V	230V
Thrust Force (push)	600N	600N
Traction Force (pull)	600N	600N
Locking Force	5000N	5000N
Stroke	500mm	500mm
Absorbed Current	0.9 – 0.4 amps	1.8 amps
Power	44 watts	90 watts
Time Rating	50%	50%
Limit Stop	Electronic	Electronic
Safety Stop	Electronic	Electronic
Wiring	2 Core (F-Signal 5 wires)	3 Core + Earth
Speed	~ 15mm/s	~ 15mm/s
IP Protection Class	IP40 (IP42 on request)	IP40
Operating Temperature	-10°C to +60°C	-10°C to +60°C
Feedback Signal Option	Free Potential Open/Close	No
Parallel Connection Option	Yes	Yes
BMS Input Available	Yes	Yes
Cable Length	3m	3m



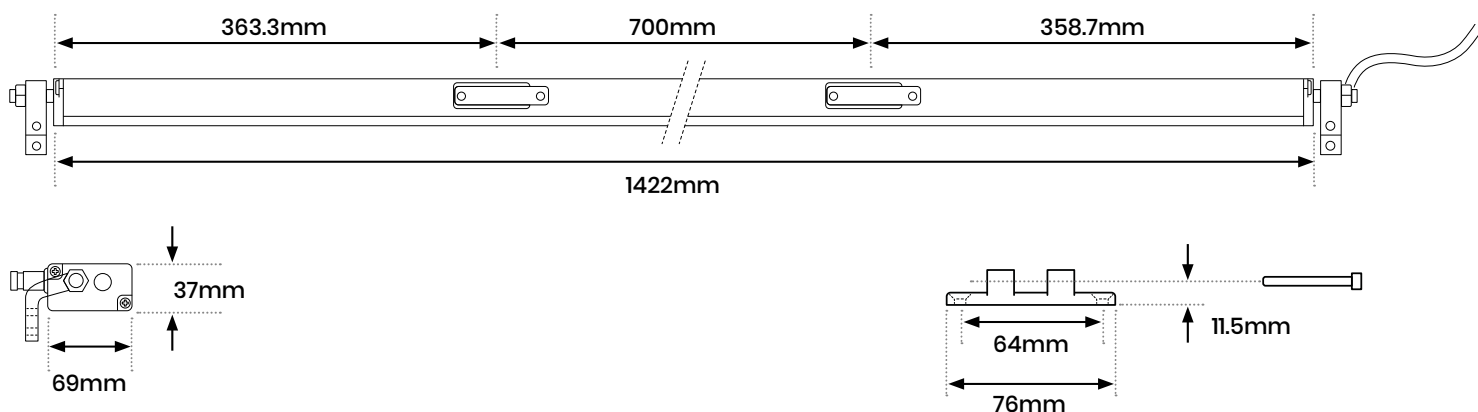
WHAT'S IN THE BOX?

- ✓ UCS Twin Quasar Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Fitting Template
- ✓ Installation and User Guide
- ✓ Health & Safety Sticker

UCS Quasar: Alternative Options Available on request

TWIN QUASAR F-SIGNAL 24V	Opening and closing feedback signal (free potential, maintained contact), activated by the current limit. 24V only.
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DIMENSIONS



PRODUCT CODES >>>

BRACKET & ACCESSORY CODES



Upper Bracket Pack (included)
Mill AXUC-VEG-BUPP-0001



Pivoting Bracket Kit
Grey AXUC-VEG-BPIV-GR01



Bottom Hinged Window Bracket Kit
Available on request

ACTUATOR CODES

UCS Twin Quasar Actuator 24V

Black	ACUC-TWI-024V-BL01
White	ACUC-TWI-024V-WH01
Silver	ACUC-TWI-024V-SI01

UCS Twin Quasar Actuator 230V

Black	ACUC-TWI-230V-BL01
White	ACUC-TWI-230V-WH01
Silver	ACUC-TWI-230V-SI01

UCS Twin Quasar BMS

Available on request

UCS Twin Quasar F-Signal (24V only)

Available on request

CHOOSING A FIXED OR SWIVEL BRACKET?

For top hung or bottom hung windows, **LESS THAN 1500mm** in height, use pivoting brackets.

Always read the manufacturer's instructions prior to installation.

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:

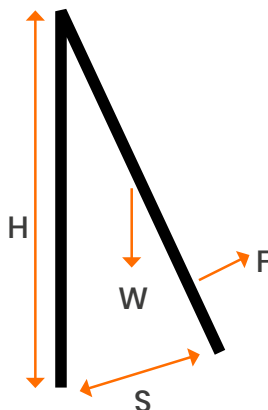
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

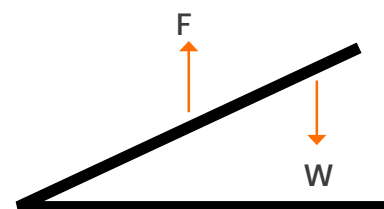
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.