

# Window Remote Control Systems

Product : Actuators / Window and Door Openers / Locks

Brand : UCS / Simon Protec

| Model                        | Brand | Product range        | Cat   | Voltage Supply    | Force             | Stroke  | Locking Force | Protection Class | Synchro | Feedback             | Operation                  | Limited Stop | Safety Stop | Features   |
|------------------------------|-------|----------------------|-------|-------------------|-------------------|---|---------------|------------------|---------|----------------------|----------------------------|--------------|-------------|--|
| Nano BMSline                 | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | max. 400 N        | 200 / 300 / 400 / 500 / 600 / 800 MM (progr.) | -             | IP40             | Yes     | Yes by modbus RTU    | programmable               | Electronic   | Electronic  | >communication with computer provides fully programmable in all functions<br>> Integratin window automation with BMS enable interaction with other systems in building (HVAC, Lighting...)                       |
| Quasar L BMSline             | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | Progr. Up to 300N | 600 / 750 / 1000mm (progr.)                   | 3500 N        | IP40             | Yes     | Yes by modbus RTU    | programmable               | Electronic   | Electronic  | >compatible with all existing BMS system.<br>>control windows with 100% real-time feedback.<br>>build-in intelligence modules  |
| Vega BMSline                 | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | Progr. Up to 300N | progr. up to 300 mm                           | -             | IP30             | Yes     | Yes by modbus RTU    | programmable               | Electronic   | Electronic  | >compatible with all existing BMS system.<br>>control windows with 100% real-time feedback.<br>>build-in intelligence modules  |
| Quasar BMSline               | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | Progr. Up to 300N | progr. up to 500 mm                           | -             | IP40             | Yes     | Yes by modbus RTU    | programmable               | Electronic   | Electronic  | >compatible with all existing BMS system.<br>>control windows with 100% real-time feedback.<br>>build-in intelligence modules  |
| Nano DC                      | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 400 N             | 200 / 300 / 400 / 500 / 600 / 800             | -             | IP40             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >The highest performance (400 N0 in the smallest case (24 x35mm))  |
| Synhchro Nano DC             | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 400 N             | 200 / 300 / 400 / 500 / 600 / 800             | -             | IP40             | Yes     | Yes                  | Polarity Inversion         | Electronic   | Electronic  | >The highest performance (400 N0 in the smallest case (24 x35mm))  |
| Synchro Nano DC F-Signal     | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 400 N             | 200 / 300 / 400 / 500 / 600 / 800             | -             | IP40             | Yes     | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | >provide free potential opening and closing Polarity inversionfeedback signal  |
| Quasar DC                    | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 500 MM  | 2500 N        | IP40             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | > high performance in small casing   |
| Synchro Quasar DC            | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 500 MM  | 2500 N        | IP40             | Yes     | -                    | Polarity Inversion         | Electronic   | Electronic  | > high performance in small casing   |
| Quasar DC F-Signal           | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 500 MM  | 2500 N        | IP40             | -       | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | > high performance in small casing   |
| Synchro Quasar DC F-Signal   | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 500 MM  | 2500 N        | IP40             | Yes     | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | > high performance in small casing   |
| Synchro Quasar DC Drawbridge | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 500 MM  | 2500 N        | IP40             | Yes     | -                    | Polarity Inversion         | Electronic   | Electronic  | >Drawbridge version is suitable for installation of two units on bottom hinged windows, opening outwards 90°, for smoke ventilation  |
| Quasar AC                    | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 500 MM  | 2500 N        | IP40             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | > high performance in small casing   |
| Synchro Quasar AC            | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 500 MM  | 2500 N        | IP40             | Yes     | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | > high performance in small casing   |
| Quasar L DC                  | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP40             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >Suitable for combined installaton with additional locking device E-LOCK or PLUSULTRA  |
| Synbchro Quasar L DC         | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP40             | Yes     | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | > high performance in small casing   |
| Quasar L DC F-Signal         | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP40             | -       | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | > F signal version provide free potential opening and closingfeedback signal   |
| Synchro Quasar L DC F-Signal | UCS   | Actuators > Electric | Chain | 24 VDC +/- 15%    | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP40             | Yes     | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | >integrated speed synchronization control board<br>>F signal version provide free potential opening and closing feedback signal.   |
| Quasar L AC                  | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP40             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >High performance in small alum casing (45 x 32 mm).   |
| Synchro Quasar L AC          | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 600 / 750 / 1000 MM                           | 3500 N        | IP30             | Yes     | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >High performance in small alum casing (45 x 32 mm).   |
| Vega DC                      | UCS   | Actuators > Electric | Chain | 24 VDC +/- 10%    | 300 N             | 300 MM  | 2500 N        | IP30             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >High performance in small alum casing (45 x 32 mm).   |
| Synchro Vega DC              | UCS   | Actuators > Electric | Chain | 24 VDC +/- 10%    | 300 N             | 300 MM  | 2500 N        | IP30             | Yes     | -                    | Polarity Inversion         | Electronic   | Electronic  | >High performance in small alum casing (45 x 32 mm).   |
| Vega DC F-Signal             | UCS   | Actuators > Electric | Chain | 24 VDC +/- 10%    | 300 N             | 300 MM  | 2500 N        | IP30             | -       | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | > F signal version provide free potential opening and closingfeedback signal   |
| Synchro Vega DC F-Signal     | UCS   | Actuators > Electric | Chain | 24 VDC +/- 10%    | 300 N             | 300 MM  | 2500 N        | IP30             | Yes     | Yes - Free potential | Polarity Inversion         | Electronic   | Electronic  | > F signal version provide free potential opening and closingfeedback signal   |
| Vega AC                      | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 300 MM  | 2500 N        | IP30             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >High performance in small alum casing (45 x 32 mm).   |
| Vega RF                      | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 300 MM  | 2500 N        | IP30             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >integrated radio receiver and it is supplied with radio remote control; the transmitter controls simultaneously all actuators within its field of action. Thermostat can be connected directly to the actuator. |
| Vega RF Rain                 | UCS   | Actuators > Electric | Chain | 110 VAC - 240 VAC | 300 N             | 300 MM  | 2500 N        | IP30             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >integrated radio receiver and it is supplied with radio remote control; the transmitter controls simultaneously all actuators within its field of action. Thermostat can be connected directly to the actuator. |
| Twin Quasar DC               | UCS   | Actuators > Electric | Chain | 24 VDC +/- 10%    | 600 N             | 500 mm  | 5000 N        | IP40             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >The strongest chain actuator in double stainless steel links  |

| Model                           | Brand | Product range        | Cat             | Voltage Supply    | Force  | Stroke                          | Locking Force | Protection Class | Synchro | Feedback             | Operation                  | Limited Stop | Safety Stop | Features  |
|---------------------------------|-------|----------------------|-----------------|-------------------|--------|---------------------------------|---------------|------------------|---------|----------------------|----------------------------|--------------|-------------|---|
| <b>Twin Quasar DC F-Signal</b>  | UCS   | Actuators > Electric | Chain           | 24 VDC +/- 10%    | 600 N  | 500 mm                          | 5000 N        | IP40             | -       | Yes - free potential | Polarity Inversion         | Electronic   | Electronic  | >The strongest chain actuator in double stainless steel links   |
| <b>Twin Quasar AC</b>           | UCS   | Actuators > Electric | Chain           | 110 VAC - 240 VAC | 600 N  | 500 MM                          | 5000 N        | IP40             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >The strongest chain actuator in double stainless steel links   |
| <b>Twin Vega DC</b>             | UCS   | Actuators > Electric | Chain           | 24 VDC +/- 10%    | 600 N  | 300 MM                          | 5000 N        | IP30             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >The strongest chain actuator in double stainless steel links   |
| <b>Twin Vega DC F-Signal</b>    | UCS   | Actuators > Electric | Chain           | 24 VDC +/- 10%    | 600 N  | 300 MM                          | 5000 N        | IP30             | -       | Yes - free potential | Polarity Inversion         | Electronic   | Electronic  | >The strongest chain actuator in double stainless steel links   |
| <b>Stile</b>                    | UCS   | Actuators > Electric | Chain           | 230 VAC 50/80 HZ  | 300 N  | 230 / 400 MM                    | -             | IP20             | -       | -                    | 3 wires (open, close, com) | Micro Swit   | -           | > Double link chain for a better load resistance in top hinged windows, heavy windows or roof windows   |
| <b>Stile R</b>                  | UCS   | Actuators > Electric | Chain           | 230 VAC 50/80 HZ  | 300 N  | 300 / 400 MM                    | -             | IP20             | -       | closing signal       | 3 wires (open, close, com) | Micro Swit   | -           | >adjustable stroke from 0 to 300mm, Max 400mm > provided with closing feedback signal   |
| <b>Stile RF</b>                 | UCS   | Actuators > Electric | Chain           | 230 VAC 50/80 HZ  | 300 N  | 230 / 400 MM                    | -             | IP20             | -       | closing signal       | 3 wires (open, close, com) | Micro Swit   | -           | >Integrated radio receiver  |
| <b>Sintesi 2000</b>             | UCS   | Actuators > Electric | Chain           | 230 VAC +/- 10%   | 180 N  | 250 / 380 MM                    | -             | IP20             | -       | -                    | 3 wires (open, close, com) | Micro Swit   | -           | >Easy installation<br>>Exclusive system for electrical connection.  |
| <b>Supermaster 230 VAC</b>      | UCS   | Actuators > Electric | Chain           | 230 VAC +/- 10%   | 400 N  | 450 / 600 / 800 MM              | -             | IP20             | -       | -                    | 3 wires (open, close, com) | Micro Swit   | -           | >The longest stroke( 800mm) and the highest force (400N)  |
| <b>Supermaster 24 VDC</b>       | UCS   | Actuators > Electric | Chain           | 24 VDC +/- 10%    | 400 N  | 450 / 600 / 800 MM              | -             | IP20             | -       | Open / Close         | Polarity Inversion         | Micro Swit   | -           | >The longest stroke( 800mm) and the highest force (400N)  |
| <b>E-LOCK</b>                   | UCS   | Lock >Electr         | Locking Devices | 24 VDC +/- 10%    | 600 N  | 19 - 38 MM                      | -             | IP32             | -       | -                    | Polarity Inversion         | Hall sensor  | Electronic  | >>integrated into the window profile or on the profile,connected to the window hardware through a slot.<br>>Used in combination with electric chain actuators 24VDC   |
| <b>Magenetic Locking Device</b> | UCS   | Lock >Electr         | Locking Devices | -                 | -      | -                               | -             | -                | -       | -                    | C-SV control panel         | -            | -           | >Additional locking device for SHEV<br>>Can be operated by C-SV control panel for smoke ventilation only  |
| <b>Plusutra</b>                 | UCS   | Lock >Electr         | Locking Devices | -                 | -      | -                               | -             | -                | -       | -                    | clockwise closing rotation | -            | -           | >Inexpensive solution for the automation of windows with multiple locking points, avoiding the installation of additional electric actuators ( or electronic locks).<br>>has to be installed together with chain actuators series QUASAR and VEGA. A version.<br>>the force to release the locking points before opening. |
| <b>Max</b>                      | UCS   | Actuators > Electric | Spindle         | 230 VAC +/- 10%   | 450 N  | 180 / 300 / 500 MM              | -             | IP65             | -       | -                    | 3 wires (open, close, com) | Micro Swit   | Thermic     | >Load transmission by rigid spindle.<br>>Not suitable for outdoor application.<br>>High protection from atmospheric   |
| <b>ULYSSES DC</b>               | UCS   | Actuators > Electric | Spindle         | 24 VDC +/- 10%    | 650 N  | 180 / 300 MM                    | -             | IP65             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >Load transmission by rigid spindle. Particular indicated to operate sun blades<br>>High protection from atmospheric.   |
| <b>ULYSSES RWA</b>              | UCS   | Actuators > Electric | Spindle         | 24 VDC +/- 10%    | 650 N  | 180 / 300 MM                    | -             | IP65             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >Particular indicated to operate sun blades.<br>>High protection from atmospheric agents.<br>>Suitable for installation on Smoke and Heat Exhaust Ventilators (SHEV) in conformity to standard EN12101-2.   |
| <b>RACK 24 VDC</b>              | UCS   | Actuators > Electric | Rack            | 24 VDC +/- 10%    | 1000 N | 350 / 500 / 750 / 1000 MM       | -             | IP65             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >1200 mm stroke available on request.   |
| <b>Synchro T-Rack 24 VDC</b>    | UCS   | Actuators > Electric | Rack            | 24 VDC +/- 10%    | 1000 N | 350 / 500 / 750 / 1000 MM       | -             | IP65             | Yes     | -                    | Polarity Inversion         | Electronic   | Electronic  | >1200 mm stroke available on request.<br>>For large domes/top hinged windows<br>>Max 4x actuators Synchro T-Rack can be used providing up to four push points on the same vent.   |
| <b>T-Rack 230 VAC</b>           | UCS   | Actuators > Electric | Rack            | 230 VAC +/- 10%   | 1000 N | 350 / 500 / 750 / 1000 MM       | -             | IP65             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >1200 mm stroke available on request.   |
| <b>T-Rack 24 VDC</b>            | UCS   | Actuators > Electric | Rack            | 24 VDC +/- 10%    | 750 N  | 180 / 350 / 500 / 750 / 1000 MM | -             | IP65             | -       | -                    | Polarity Inversion         | Electronic   | Electronic  | >For large domes/top hinged windows or to provide more stability.<br>>Dual Rack push force 650-750N.<br>>Double Rack push force 1300-1500N  |
| <b>Rack 230 VAC</b>             | UCS   | Actuators > Electric | Rack            | 230 VAC +/- 10%   | 650N   | 180 / 350 / 550 / 750 / 1000 MM | -             | IP65             | -       | -                    | 3 wires (open, close, com) | Electronic   | Electronic  | >For large domes/top hinged windows or to provide more stability.<br>>Dual Rack push force 650-750N.<br>>Double Rack push force 1300-1500N  |
| <b>Cat</b>                      | UCS   | Actuators >Manual    | Chain           | -                 | -      | 280 MM                          | -             | -                | -       | -                    | -                          | -            | -           | >For skylights, roof windows and top hinged windows.<br>Can be equipped with a handle or eyelet for operation<br>>Allows window operation without remove any insect screen.<br>>Suitable for windows with more than 300mm height.   |

| Model   | Brand        | Product range            | Cat       | Voltage Supply | Force                    | Stroke                    | Locking Force | Protection Class       | Synchro | Feedback | Operation | Limited Stop | Safety Stop | Features   |
|---|--------------|--------------------------|-----------|----------------|--------------------------|---------------------------|---------------|------------------------|---------|----------|-----------|--------------|-------------|--|
| Chain Openers   | UCS          | Actuators<br>>Manual     | Chain     | -              | -                        | 250 MM                    | -             | -                      | -       | -        | -         | -            | -           | >Kit for single or group top/bottom hung windows.<br>>Suitable for top hinged windows with less than 1.5M  |
| Telescopic Spindle  | UCS          | Actuators<br>>Manual     | Spindle   | -              | -                        | 310 MM                    | -             | -                      | -       | -        | -         | -            | -           | >Suitable for operating skylights, domes and roof windows up to 2000 N weight.<br>>Operation by crank handle.<br>>Complete bracket set included.   |
| Pneumatic Cylinders   | UCS          | Actuator<br>>Pneumatic   | Spindle   | -              | -                        | -                         | -             | -                      | -       | -        | -         | -            | -           | >Stroke : 500 / 700 MM<br>>Suitable for smoke and heat exhaust systems according to the UNI EN 12101-2 standard.<br>>Temp. range : -30°C / +120°C<br>>Double action cylinders can open and close.<br>>It can be pneumatically or manually unlocked.<br>>Used for ventilation where a compressed air system is available.<br>>CO2 cartridges available on 20g/30g/50g/70g/100g.<br>>Thermal Bulbs available on 68°C / 93°C / 141°C  |
| Folding Arm <sup>2</sup> PA-KL <sup>2</sup>                 | Simon Protec | Actuator<br>>Electric    | Folding A | 24 VDC         | 500 / 750 / 800 / 1000 N | 530 / 710 / 960 / 1200 MM | -             | IP54 / IP65 on request | -       | -        | -         | -            | -           | >Premium actuator technology for electromotive window opening on facades and roofs.<br>>High-performance gear (>20,000LW) with S.S. lever arms is very resistant to variable loads(wind,snow)<br>>Especially for extremely large and heavy windows.<br>>Stroke up to 1200mm is excellent for the automation of roof exits.<br>>every individual folding arm actuators are tested and certified according to 12101-2<br>>Suitable for smoke and heat exhaust ventilation devices and daily ventilation.                             |
| Folding Arm <sup>2</sup> PA-KL <sup>2</sup> -DF Rotary Wing | Simon Protec | Actuator<br>>Electric    | Folding A | 24 VDC         | 500 N                    | 140 opening angle         | -             | IP54                   | Yes     | -        | -         | -            | -           | Features:<br>>Manual and automated opening of doors without restriction<br>>Suited for the the automated opening of doors for supply air in case of fire.<br>>Large opening width 122° with extremely short opening time of less than 60 seconds. This guarantees rapid smoke extraction in case of fire.<br>>High performance gear (>20,000LW) combine with S.S. lever arm is very resistant.<br>>Ideal for projects with high aesthetic demands - especially for large and heavy doors.<br>>Programmable via software interface. |
| Folding Arm <sup>2</sup> PA-KL <sup>2</sup> -T door opener  | Simon Protec | Door Opener<br>>Electric | Folding A | 24 VDC         | 300 / 500 /              | opening angle 122         | -             | IP54                   | -       | -        | -         | -            | -           | >Manual and automated opening of doors without restriction<br>>Suited for the the automated opening of doors for supply air in case of fire.<br>>Large opening width 122° with extremely short opening time of less than 60 seconds. This guarantees rapid smoke extraction in case of fire.<br>>High performance gear (>20,000LW) combine with S.S. lever arm is very resistant.<br>>Ideal for projects with high aesthetic demands - especially for large and heavy doors.<br>>Programmable via software interface.              |