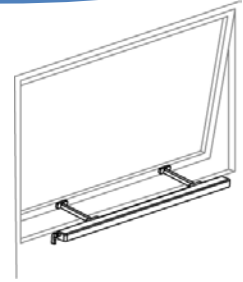




UL-Recognized models available



Twin-Synchro-Quasar Actuator Features

- Twin-Synchro-Quasar actuators are for wide awning windows, hoppers, curtain wall vents and skylights.
- Twin-Synchro-Quasar is for wide vents that require 2 motors, providing multiple sash connection points and synchronized operation. Available in DC version only.
- Twin-Synchro-Quasar is 2 Synchro-Quasar actuators in one case. Standard distance between chains is 720 mm; longer by custom order.
- Multiple vents can be wired in parallel, and can be operated by building automation systems.
- Operators have chain lengths of 380mm/15" or 500mm/20"; self-adjusting for proper closure at installation.
- Operators have stainless steel, double-link chain for rigidity and durability.
- Examples of 135 lbs operating force: 48" tall/864 lb. vent, 82" tall/1476 lb. vent, or 270 lb. skylight (with 15" chain).
- Low-profile, attractive aluminum case; available in silver anodized, black paint, or white paint.
- Minimum sash height is 12" for 15" chain (16" for 20" chain). Standard pivot brackets included.
- Twin-Synchro-Quasar F-Signal (DC) has opening and closing feedback signal, ask for data sheet.
- Two-year UCS manufacturer's warranty. Requires reading FFI Install Guide before purchase, and confirmation of project and installation specs by licensed electrical contractor.
- Functional Fenestration Inc (FFI) has a wide range of actuators for institutional, commercial and residential applications. FFI has been providing motorized operators for windows and skylights since 1987, and today is an expert and leader in actuators for automation, natural ventilation, and smoke evacuation.

Twin-Synchro-Quasar Specifications

	Twin-Synchro-Quasar DC UL
supply voltage	24 Vdc \pm 10% low voltage
normal current amp draw*	1.8 amps average*
power cable (1.5 m)	white color; 2 conductors (\pm polarity inversion)
chain stroke	380 mm (15 inches) or 500 mm (20 inches) opening length
chain speed	15 mm (0.6 inches) per second
limit stop	electronic limit switch
safety stop	electronic overload switch
typical switch	DPDT maintained contact (6 leads)
safety marks	ANSI/UL Recognized; CE
UL projects	UL Recognized
push/pull force	135 lbs (600 N)
environment	14 to 140 degrees F (-10 to 60 degrees C); maximum relative humidity 60%
control options	Wall switch or CRM keypad; add remote control and weather sensors (rain, wind, thermostat) with CRM

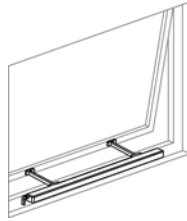
* Start-up current for Quasar DC is 3.5 amps for one actuator. Calculate power supplies & relay boxes based on peak of 2 times normal amp draw, or approx. 3.5 amps per actuator. Therefore, 7 amps for each Twin-Synchro-Quasar.

Application Options

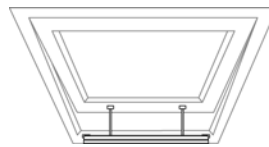
On Wall or Frame



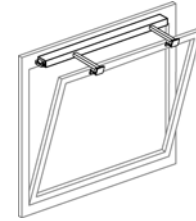
Awning



Skylight



Hopper



- Optional brackets may be required for hopper and wall mounting.
- Read FFI Installation & Maintenance Guide before specifying project details.
- CAD files available on request from FFI.



installs on sash, sill or wall

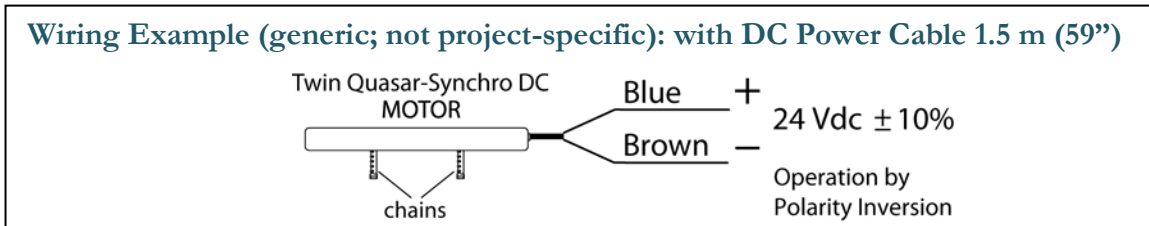


chain operator attached to frame



Standard-L pivot brackets (included)

<p>Case Dimensions Height: 1 7/16" (37mm) Depth: 2 11/16" (69mm) Length: 58 7/16" (1485mm)</p>		<p>Sash Bracket Dimensions</p>
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Twin Synchro-Quasar Actuators from FFI

If in-stock, items ship within 24-48 hours

color	Twin Synchro-Quasar DC UL 15"/380mm	Twin Synchro-Quasar DC UL 20"/500mm
silver anodized	41178B	41181P
black RAL 9005 paint	41179D	41182S
white RAL 9010 paint	41180M	41183U