

ADDITIONAL LOCKING DEVICES

for automated windows with multiple locking points

In accordance with the standards related to energy saving, water- and airtightness of the windows has become even more important, requiring hardware systems with multiple locking points.

In case of window automation it is necessary to complement the chain actuator with a further actuator, able to operate in a transversal way the window hardware, in order to engage multiple locking points on the frame.

UCS provides two solutions for this purpose: E-LOCK and Plusultra

E-LOCK

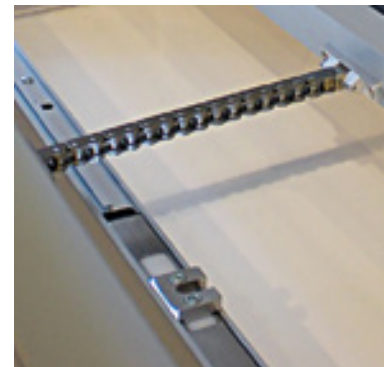
electric additional locking device to be installed inside the frame of the window



E-LOCK is a linear drive designed to lock the window hardware and ensure, in combination with a chain actuator, the best window closing tightness. E-LOCK has to be integrated into or installed in the window profile.

It has been designed to be used in combination with electric chain actuators series QUASAR and VEGA 24 Vdc (TWIN QUASAR and TWIN VEGA included).

- Stainless steel case.
- The locking plate can be mounted on both side of the drive.
- Provided with an emergency unlocking mechanism.
- Different strokes can be selected by internal switches.
- Available a version to be used with QUASAR BMS and VEGA BMS actuators for the connection to a network of Building Management System.
- E-LOCK is suitable for installation on **Smoke and Heat Exhaust Ventilators (SHEV)** in conformity to European Standard EN 12101-2, tested by **Istituto Giordano**

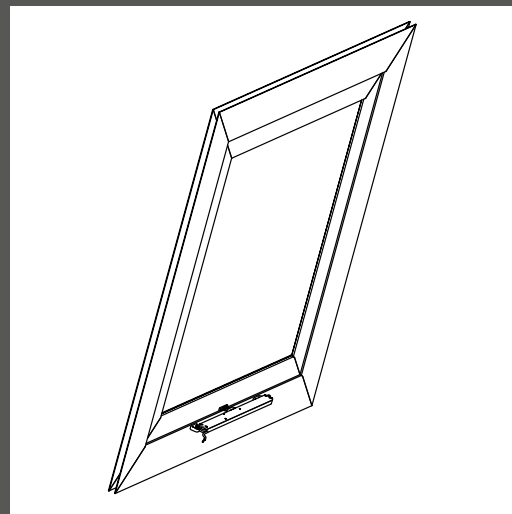
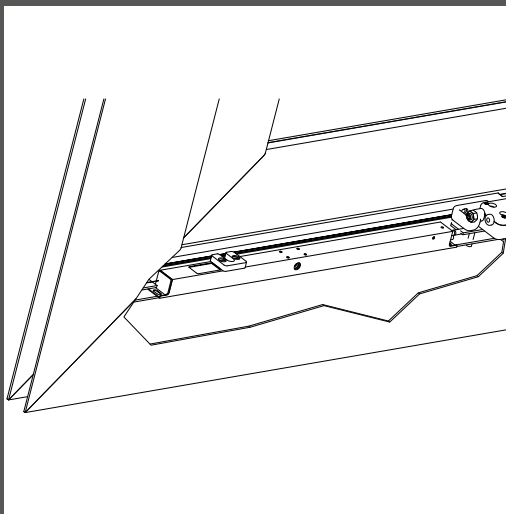
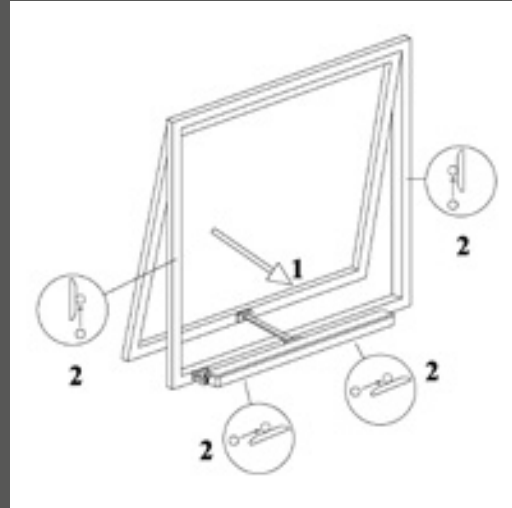
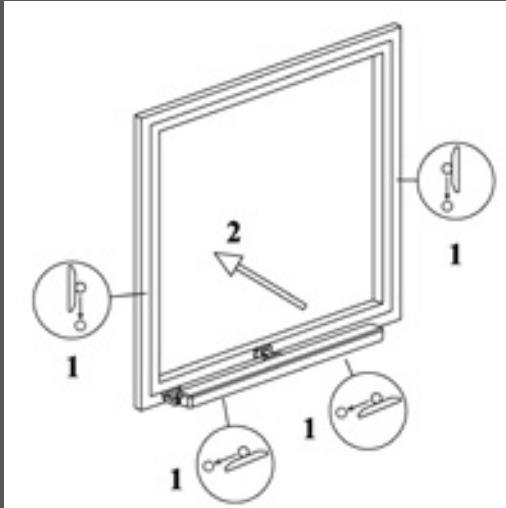


	E-LOCK	E-LOCK BMS
POWER SUPPLY	24 Vdc ± 10%	24 Vdc ± 10%
OPERATION	polarity inversion	via BUS line
STROKE selectable by switches	19 mm - 38 mm	19 mm - 38 mm
FORCE (push and pull)	600 N	600 N
SPEED (full load)	~ 1,6 mm/s	~ 1,6 mm/s
CURRENT ABSORPTION (max load)	0,2 A	0,2 A
PARALLEL CONNECTION	YES	YES
LIMIT STOP	Hall sensor	Hall sensor
SAFETY STOP	Electronic	Electronic
PROTECTION CLASS	IP 32	IP 32
BMS Compatible	NO	YES
Part. No	41588I	41589J

Installation examples



Top hinged window



Operating logic

E-LOCK

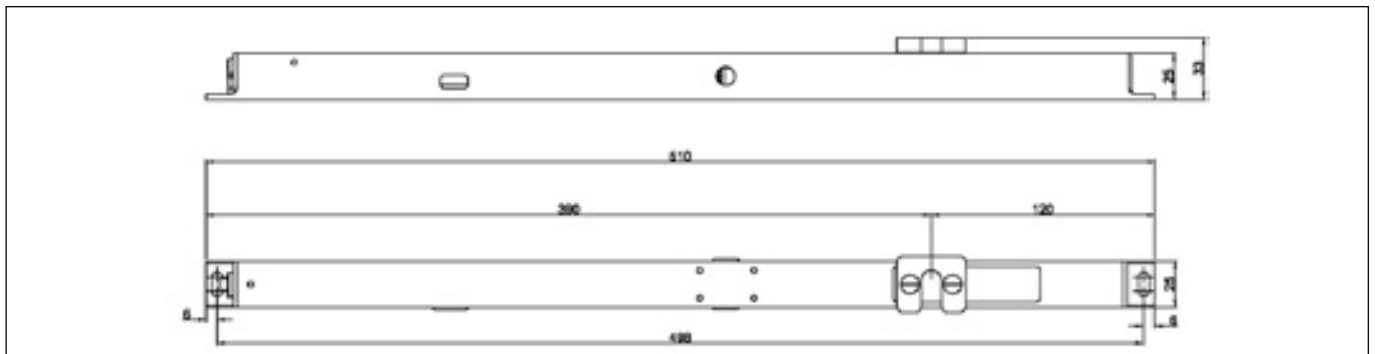
Opening: the actuator unlocks the hardware and, three seconds after the complete release, power is supplied to the chain actuator.

Closing: the actuator operates the locking hardware three seconds after a free potential signal from end-stroke switches (for example magnetic contact placed between the frame and the sash to ensure the effective close position of the window, or signal coming from UCS actuators in "F-Signal" versions). When the free potential signal is not available, E-Lock operates the hardware after a certain time from the closing command,selectable by dip switches.

E-LOCK BMS

E-LOCK BMS communicates via BUS line with chain actuators BMSline, whose electronic board manages the feedback information and checks the locking or unlocking status of the hardware.

Actuator dimensions



Accessories



Emergency unlocking tool part. No. 41596Q (to be ordered separately)