

KATO | Chain actuator 300N



The strengths of Nekosproducts are recognised in all the actuators, but KATOWas and remains the parent product of the entire family. An idea made concrete in practice. For many years, it has been used by manufacturers of windows, dome rooflights and attic windows, by electricians and in special applications.

- Brackets for quick fitting of the actuator in its working position, variable strokes that can be selected electronically, easy chain to window attachment (Nekospatent) and the relax function are the main and defining characteristics that distinguish KATO and all other actuators developed after it.
- Compact overall dimensions, only 37x59 cm in section; the body and the brackets are made from strong composite material (glass fibre-reinforced polyamide).



PATENTED
 EP1723303 - EP1723304B1

MODEL	KATO230	KATO24
Thrust and traction force	300 N	
Strokes (can be selected at any time)	110, 200, 300, 400 mm	
Power supply voltage	230V~ 50Hz	24V DC
Rated absorbed current	0,25 A	0,9 A
Power absorbed at nominal load	~27 W	~22 W
No load speed	14,6 mm/s	14,6 mm/s
Duration of no load stroke (400 mm)	27 s	27 s
Electrical insulation	Class II	Class III (Selv)
Type of service	2 cycles	5 cycles
Working temperature	- 5 + 65 °C	
Protection index for electrical devices	IP30	

	Automatic definition of position
Adjustment of connection to window frame	Yes (max 20)
Connection in parallel of two or more motors	No
Synchronised function	Yes (mod. Syncro3- max 8)
Holding nominal force (it can vary according to the chosen brackets)	1600 N
Stroke-end at opening	Electronic with regulation by means of dip-switches
Stroke-end at closing	At absorption of power
Signalling 'window open/window closed'	No
Length of power cable	2 m
Dimensions	386,5x59x37 mm
Weight	0,98 / 0,97

APPLICATIONS

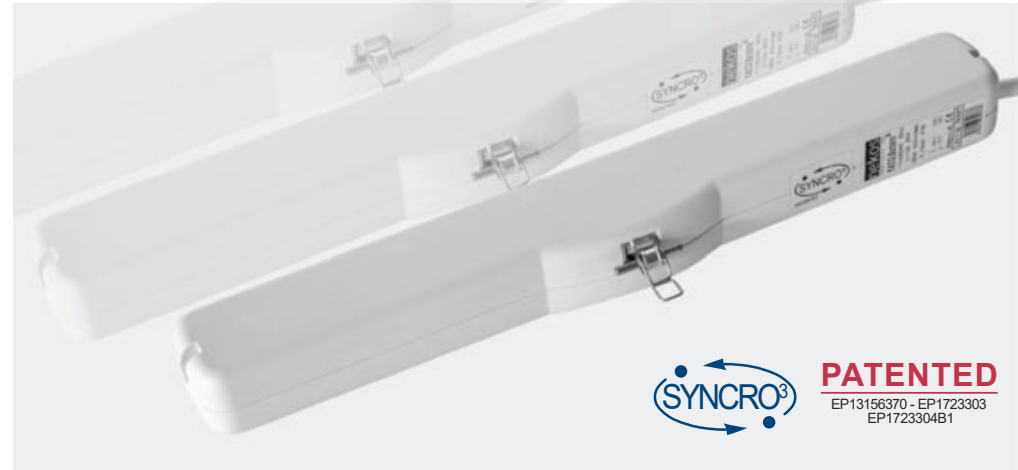
VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

CODE	MODEL
6030001	KATO230V black
6030002	KATO230V white
6030003	KATO230V grey
6050001	KATO24V black
6050002	KATO24V white
6050003	KATO24V grey

KATO Syncro³ | Actuator for Coordinated Synchronisation



- Kato Syncro³ is an evolution of the original Nekospatent. It allows perfectly coordinated synchronisation of up to 8 actuators without the use of external control units.
- Syncro³ is the only true window actuator synchronisation device available on the market and is only one of several patents registered by Nekos, confirming the high technological level reached by the company and its R&D department.



PATENTED
 EP13156370 - EP1723303
 EP1723304B1

MODEL	SYNCRO ³ 230	SYNCRO ³ 24
Thrust and traction force	300 N	
Strokes (can be selected at any time)	100, 200, 400 mm	
Power supply voltage	110-230V~50/60Hz	24V DC
Rated absorbed current	0,34-0,21A	0,95 A
Power absorbed at nominal load	~26-27 W	~23 W
No load speed	8,9 mm/s	8,9 mm/s
Duration of no load stroke (400 mm)	44 s	44 s
Electrical insulation	Class II	Class III (Selv)
Type of service	2 cicli	5 cicli
Working temperature	- 5 + 65 °C	
Protection index for electrical devices	IP30	

	Automatic definition of position
Adjustment of connection to window frame	Yes (max 10)
Connection in parallel of two or more motors	No
Synchronised function	Yes (mod. Syncro3- max 8)
Holding nominal force (it can vary according to the chosen brackets)	1600 N
Stroke-end at opening	Electronic with regulation by means of dip-switches
Stroke-end at closing	At absorption of power
Signalling 'window open/window closed'	No
Length of power cable	2,5 m
Dimensions	386,5x59x37 mm
Weight	1,15kg

APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

CODE	MODEL
6030504	KATOSyncro ³ 230V black
6030505	KATOSyncro ³ 230V white
6030506	KATOSyncro ³ 230V grey
6050504	KATOSyncro ³ 24V black
6050505	KATOSyncro ³ 24V white
6050506	KATOSyncro ³ 24V grey



KATO253

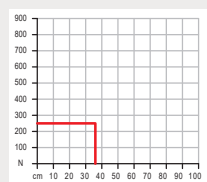
Chain actuator 250N



A chain actuator for awning windows, hopper windows, flat roof domes and dormers. KATO253 is an ingenious evolution developed by Nekosto cater to market demands. Small, smart and affordable! Simple mechanical selection of two different strokes: 240 mm and 360 mm. Equipped with a microprocessor with the following functions:

- Progressive power ramp.
- Power control over the entire stroke.
- Simple and immediate stroke selection.
- Relax function for releasing tension in mechanical parts after each stroke end.
- Accessories compatible with the entire Kato series.

It has compact dimensions; the body and brackets are made from high-strength composite material (glassfibre-reinforced polyamide). This actuator also adopts the same patents as the chain actuators produced with Nekostotechnology, both for the quick coupling actuator support and for the window fixings.

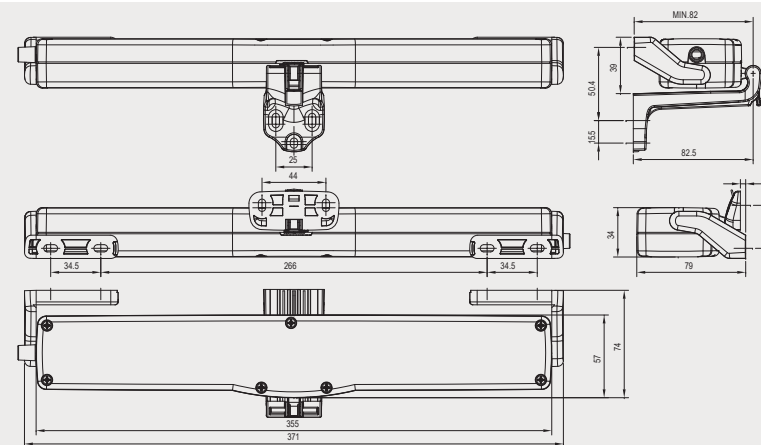


PATENTED
 EP1723303 - EP1723304B1



TECHNICAL CHARACTERISTICS (Functional and mechanical features)

- Electric actuator with double-row four-link articulated chain enclosed in a sturdy composite housing, suitable for opening awning windows, hopper windows, flat roof domes and dormers.
- Traction and thrust power 250N. Powered by 110-230V/50/60Hz or, alternatively, 24V DC. It is supplied complete with screw-less quick coupling brackets (patented) and quick coupling awning or hopper window brackets (patented).
- Two opening strokes with mechanical selection. Stroke-end stop during opening and closing with absorption of power and as protection against overload.
- Can be connected in parallel. Complies with EU directives (EMC Directive, Low Voltage Directive).
- Standard Colours: Black (similar to RAL9004) with black power cable, White (similar to RAL9003) and Grey (similar to RAL7047) with white cable.



MODEL	KATO253 230V	KATO253 24V
Thrust and traction force	250 N	
Strokes (can be selected at any time)	240, 360 mm	
Power supply voltage	110-230V~50/60Hz	24V DC
Rated absorbed current	0,42-0,21A	0,78 A
Power absorbed at nominal load	~ 23-20 W	~ 19W
Load speed	11,60mm/s	10,3mm/s
Duration of no load stroke (360 mm)	31s	35 s
Electrical insulation	Class II	Class III (Selv)
Type of service	2 cycles	5 cycles
Working temperature	- 5 + 65 °C	
Protection index for electrical devices	IP40	

Adjustment of connection to window frame	Automatic definition of position
Connection in parallel of two or more motors	YES (max 30 actuators)
Synchronised function	Not foreseen
Holding nominal force (it can vary according to the chosen brackets)	1500 N
Stroke-end at opening	At absorption of power
Stroke-end at closing	At absorption of power
Length of power cable	1m
Dimensions	356x56x33,5 mm
Weight	0,84 Kg 0,82 Kg

APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

TO BE USED WITH:

KATO253 24V:
 KOUPLE 24V
 Series KL and Series KL-R
 MODIX2/4/6
 MY-SUN1 and MY-SUN3

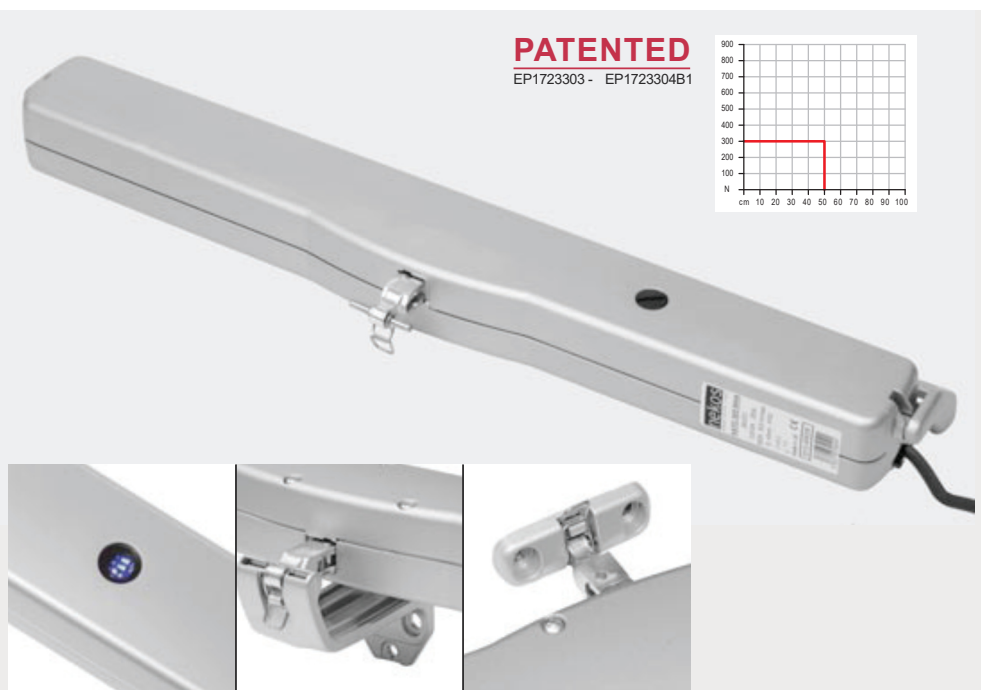
KATO253 230V:
 KOUPLE 230V
 Series KH and Series KH-R
 RR2-M

CODE	MODEL
6030080	KATO 253230V stroke 240/360 black
6030081	KATO 253230V stroke 240/360 white
6030082	KATO 253230V stroke 240/360 grey
6050057	KATO 25324V stroke 240/360 black
6050058	KATO 25324V stroke 240/360 white
6050059	KATO 25324V stroke 240/360 grey

KATO305

Metal Chain actuator 300N

- The RWA version of KATO305 has passed the toughest heat and fire resistance tests indicated by standard EN 12101-2:2003-09 with flying colours, obtaining B 300 classification with certificate no. 13-000921 at the IFT testing institute in Rosenheim in 2013.
- KATO305 actuators ensure safety, quality, efficiency, reliability and simplicity of construction, in an attractive design for incorporation into state-of-the-art windows.
- They have new electronic technology with a microprocessor for position control and management of all phases of operation. The body is made of die cast aluminium and the brackets are zinc alloy.
- They are easy to install, thanks to quick-coupling installation on the support brackets and no need for screws or fixings (Nekos patented system); another Nekos patent is the quick release of the window for easy cleaning.
- Strokes can be selected through dip-switches.



APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

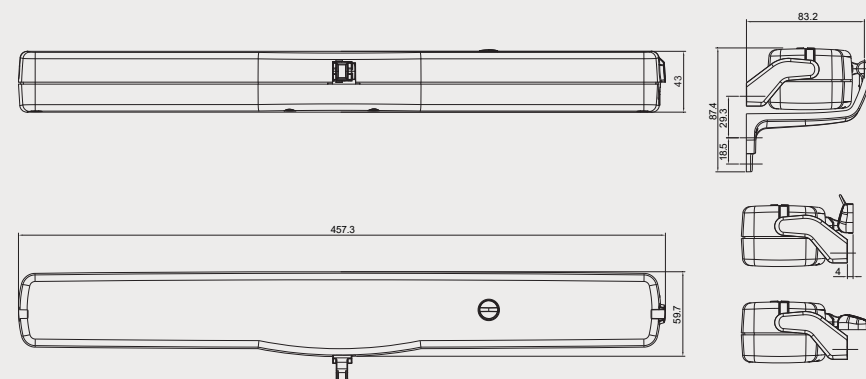
TO BE USED WITH:

KATO305|RWA 24V:
 BK-LOCK
 Series KL and Series KL-R
 FV3 - FV6
 FV 25-50-75
 MODIX2/4/6



TECHNICAL CHARACTERISTICS (Functional and mechanical features)

- Electric linear actuator with double-row four-link articulated chain enclosed in a sturdy aluminium housing, suitable for opening awning windows, hopper windows, dome rooflights and dormers. Thrust and traction power 300 N.
- Built to operate at 110-230V/50/60Hz voltage or, for RWA systems, at 24V DCSafety ELV (SELV)-voltage, in accordance with European Standard EN12101-2.
- Supplied complete with universal quick-coupling, screw-less pivoting support brackets (patented).
- Electronic opening stroke-end with three strokes (200 - 300 - 500 mm), which can be selected at any time with dip switches; closing end-stroke with power absorption as protection against overload. Soft Stop and Relax Functions.
- Can be connected in parallel. Complies with EU directives (EMC Directive, Low Voltage Directive).
- Standard colours: Black (RAL9005) with black power cable, White (RAL9010) and Grey (RAL9006) with white cables. The 24V versions have a grey silicone cable.
- Window brackets must be requested separately.



MODEL	230V	RWA 24V
Thrust and traction force	300 N	
Strokes (can be selected at any time)	200, 300, 500 mm	
Power supply voltage	110-230V~50/60Hz	24V DC
Rated absorbed current	0,32 - 0,21A	0,950 A
Power absorbed at nominal load	25-28 W	23 W
No load speed	9,2 mm/s	9,2 mm/s
Duration of no load stroke (500 mm)	54 s	54 s
Electrical insulation	Class II	Class III (Selv)
Type of service	2 cycles	5 cycles
Working temperature	- 5 + 65 °C	
Protection index for electrical devices	IP32	

Adjustment of connection to window frame	Automatic definition of position
Connection in parallel of two or more motors	YES (max 10)
Synchronised function	YES (mod. Syncro3- max 8)
Holding nominal force (it can vary according to the chosen brackets)	2000 N
Stroke-end at opening	Electronic by means of dip-switches
Stroke-end at closing	At absorption of power
Signalling 'window open/window closed'	No
Length of power cable	2 m
Dimensions	456x60x43 mm
Weight	1,55 Kg 1,65 Kg

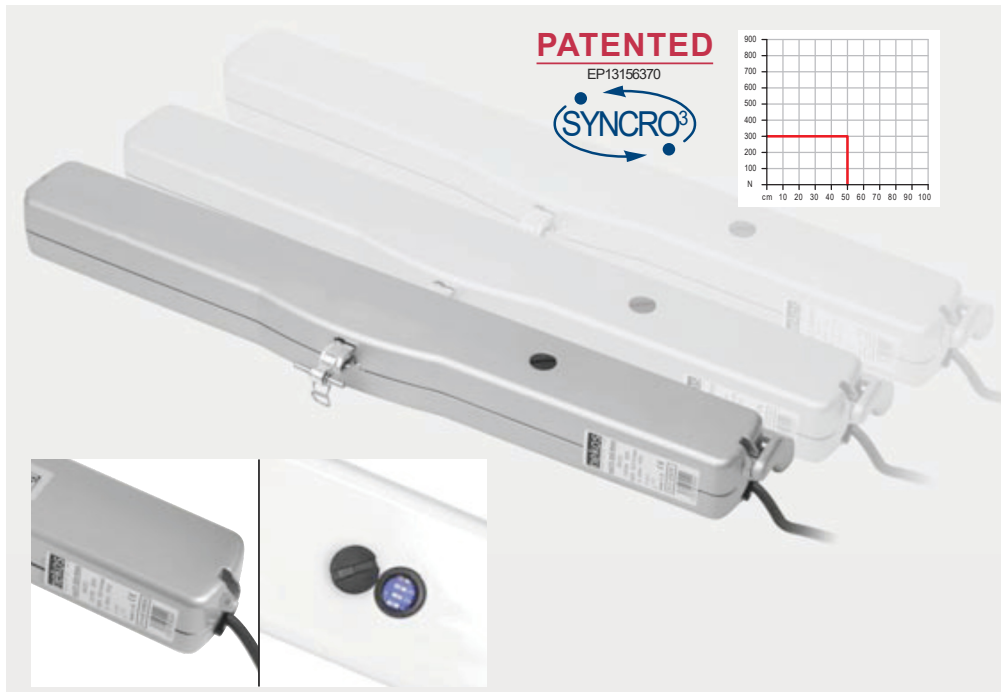
KATO305 230V:

Series KH and Series KH-R
 RR2-M

CODE	MODEL
6031001	KATO305 230V black
6031002	KATO305 230V white
6031003	KATO305 230V grey
6051001	KATO305 RWA 24V black
6051002	KATO305 RWA 24V white
6051003	KATO305 RWA 24V grey

KATO305 Syncro³ | Metal Chain actuator for Synchronisation

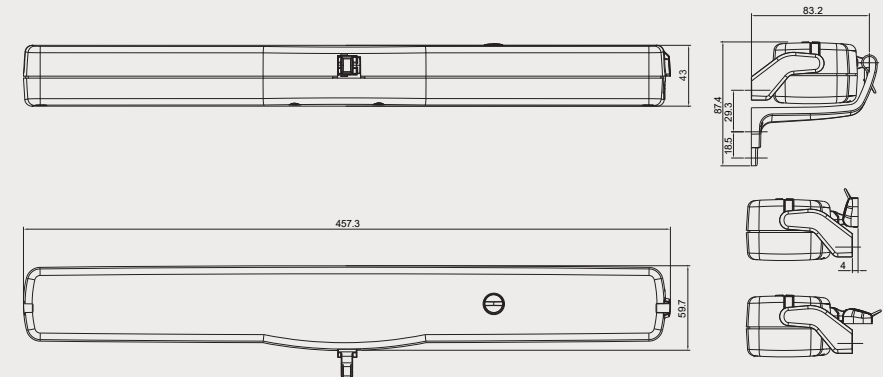
- The Syncro³ version, based on communication between the actuators through a direct connection, allows instantaneous control of the force, speed and resistance of each of them through an encoder that reads the work of the individual motors. This continuous exchange of information allows the actuators to open and close in synchrony.
- Syncro³ software now allows you to directly connect up to 8 motors without the need for external synchronisation units.
- The designer must calculate the number of actuators to place on the windows, which varies according to the size, weight and type of the windows.
- Strokes can be selected through dip-switches.



KATO305|RWA Syncro 24V KATO305 Syncro 230V

TECHNICAL CHARACTERISTICS (Functional and mechanical features)

- Electric linear actuator with double-row four-link articulated chain enclosed in a sturdy aluminium housing, suitable for opening awning windows, hopper windows, dome rooflights and dormers. Thrust and traction power 300 N.
- Built to operate with 110-230V/50/60Hz voltage or 24V DC Safety ELV (SELV) voltage RWA systems, in accordance with European Standard EN12101-2.
- Supplied complete with universal quick-coupling, screw-free pivoting support brackets (patented).
- Electronic opening stroke-end with three strokes (200 - 300 - 500 mm), which can be selected at any time with dip switches; closing end-stroke with power absorption as protection against overload. Soft Stop and Relax Functions.
- Can be connected in parallel. Complies with EU directives (EMC Directive, Low Voltage Directive).
- Standard Colours: Black (RAL9005) with black power cable, White (RAL9010) and Grey (RAL9006) with white cables. The 24V versions have a grey silicone cable.
- Window brackets must be requested separately.



MODEL	230V	RWA24V
Thrust and traction force	300 N	
Strokes (can be selected at any time)	200,300,500	mm
Power supply voltage	110-230V-50/60Hz	24V DC
Rated absorbed current	0.32-0.21A	0.950 A
Power absorbed at nominal load	25-28 W	23 W
No load speed	9.2 mm/s	9.2 mm/s
Duration of no load stroke (500 mm)	54 s	54 s
Electrical insulation	Class II	Class III (Selv)
Type of service	2 cycles	5 cycles
Working temperature	- 5 + 65 °C	
Protection index for electrical devices	IP32	

Adjustment of connection to window frame	Automatic definition of position
Connection in parallel of two or more motors	YES (max 10)
Synchronised function	YES (mod. Syncro ³ - max 8)
Holding nominal force (it can vary according to the chosen brackets)	2000 N
Stroke-end at opening	Electronic by means of dip-switches
Stroke-end at closing	At absorption of power
Signalling 'window open/window closed'	No
Length of power cable	2.5 m
Dimensions	456x60x43 mm
Weight	1,55 Kg 1,65 Kg

APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

TO BE USED WITH:

KATO305|RWA Syncro24V:
 BK-LOCK
 Series KL and Series KL-R
 FV3 - FV6
 FV 25-50-75
 MODIX2/4/6

KATO305 Syncro230V:

Series KH and Series KH-R
 RR2-M

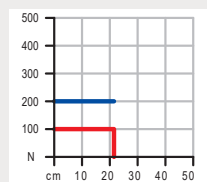
CODE	MODEL
6031504	KATO305 230V Syncro*black
6031505	KATO305 230V Syncro*white
6031506	KATO305 230V Syncro*grey
6051504	KATO305 RWA 24V Syncro*black
6051505	KATO305 RWA 24V Syncro*white
6051506	KATO305 RWA 24V Syncro*grey



KIMO

Chain actuator 200N

- A flush-mounted electric chain actuator for awning windows, hopper windows and dormers. Kimo is a latest generation actuator equipped with a microprocessor that can be combined with a building automation system. It includes the following features:
- A progressive starting ramp and power control over the entire stroke.
- Intuitive and immediate stroke selection with dip-switches.
- Relax function, with release of tension on mechanical parts after each stroke-end generated by a mechanical lock.
- Nekos patented chain.
- Flush-mounted window brackets that allow the motor to be inspected, even during a power outage or product failure.
- Intelligent, compact and robust (built entirely of metal), it is the smallest commercially available window actuator. Combined with the BK-LOCK and the perimeter fittings, it provides a burglar-proof window lock. Can be flush mounted in any European groove profile. It fixes to the frame with two brackets. Extremely quiet (42 dBA) and sturdy, with compact dimensions.

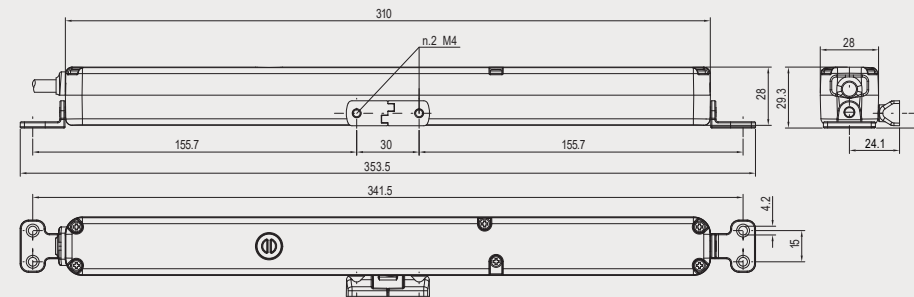


PATENTED
 EP2574823



TECHNICAL CHARACTERISTICS (Functional and mechanical features)

- Electric actuator with a three-link articulated chain (Necos patent), enclosed in a sturdy metal housing, suitable for opening and closing awning and hopper windows. Traction power 200 N, thrust 100 N, operates only at Safety ELV (SELV) voltage (24V DC).
- Supplied complete with screw-less pivoting support brackets and a universal coupling bracket for awning and hopper windows.
- Opening stroke-end can be adjusted at any time by selecting the dip-switches, closing stroke-end with power absorption as protection against overload.
- Can be connected in parallel. Complies with EU directives (EMC Directive, Low Voltage Directive).
- Comes in only one colour: Grey (RAL9006) with a grey silicone cable.



MODEL	KIMO - 24V
Thrust force	100N
Traction force	200N
Strokes (can be selected at any time)	70, 125, 170, 210 mm
Power supply voltage	24 V D C
Rated absorbed current	0,36 A
Power absorbed at nominal load	8,6 W
Load speed	5,5 mm/s
Duration of load stroke (210 mm)	38 s
Electrical insulation class	III (Selv)
Type of service	5 cycles
Working temperature	-5 + 65 °C
Protection index for electrical devices	IP32
Soft Stop	NO

Relax function	YES
Adjustment of connection to window frame	Automatic definition of position
Connection in parallel of two or more motors	YES (max 20 actuators)
Operation with BK-LOCK electromechanical lock	Yes
Synchronised function	Not foreseen
Holding nominal force (it can vary according to the chosen brackets)	1700 N
Stroke-end at opening	Electronic by dip-switch
Stroke-end at closing	At absorption of power
Length of power cable	2 m
Chain exit	central
Dimensions	29x29x310 mm
Weight	0,720 Kg

APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 ROOF FRAME

TO BE USED WITH:

BK-LOCK
 Series K Land Series KL-R
 MODIX 2/4/6
 MY-SUN1 and MY-SUN3
 ALI'SW

CODE	MODEL
6050072	Actuator KIMO24V - max. stroke 210mm



KATO ADV Radio | Remote-controlled Actuator 230V

- KATO ADV Radio is the radio-controlled evolution of the KATO family.
- It has the same body but a different and evolved intelligence. Complete with a radio frequency receiver integrated in the actuator body, it is suitable for installation wherever there is a need for remote control, through the PIK Radio Remote Control unit with rolling code technology.
- It can be connected to a bidirectional up-down switch.
- Use together with the NRS1 rain detector allows automatic closing of the window by wire signal in the event of rain, without need for additional control units.

PATENTED
 EP1723303 - EP1723304B1



MODEL	KATO ADV RADIO
Thrust and traction force	300 N
Strokes (can be selected at any time)	100, 200, 300, 400 mm
Power supply voltage	110-230V~50/60Hz
Current consumption at nominal charge	0,31-0,24 A
Current consumption with no charge	0,084-0,042 A
Charge absorbed at nominal load	23-27 W
No load speed	15,7mm/s
No load duration (400 mm)	25 s
Electrical insulation	Class II
Type of service	2 cycles

Working temperature	- 5 + 65 °C
Protection index for electrical devices	IP30
Adjustment of connection to window frame	Automatic definition of position
Holding nominal force (it can vary according to the chosen brackets)	1600 N
Connection in parallel of two or more motors	Yes
Stroke-end at opening	Electronic by means of dip-switches
Stroke-end at closing	At absorption of charge
Dimensions	386,5x59x37
Weight	1,00 kg

APPLICATIONS

VASISTAS FRAME
 OUTWARD FRAME
 PIVOTING FRAME
 DOMES
 SKYLIGHTS
 ROOF FRAME

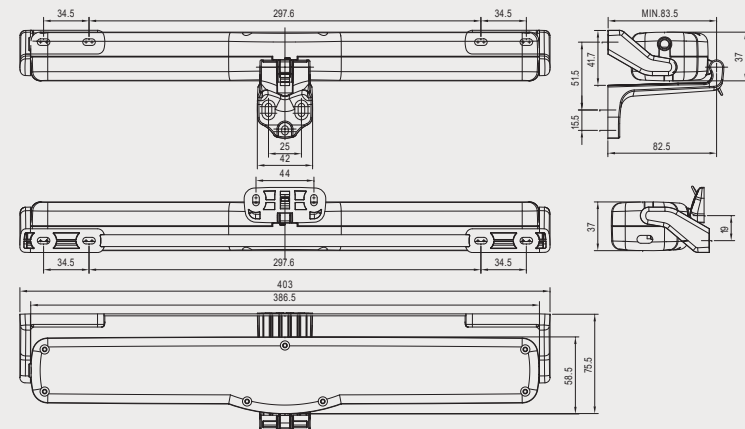
CODE	MODEL
6030580	KATO ADV Radio black
6030581	KATO ADV Radio white
6030582	KATO ADV Radio grey
7505021	NRS1 Heated Rain sensor
7505025	PIK Remote control

IMPORTANT: remote control and rain sensor are provided separately.



KATO SERIES TECHNICAL CHARACTERISTICS (Functional and mechanical features)

- Electric actuator with a double-row four-link articulated chain enclosed in a sturdy composite material housing (glass fibre-reinforced polyamide). Suitable for opening awning windows, hopper windows, dome rooflights and dormers.
- Traction and thrust power 300N. Powered by 110-230V50Hz or, alternatively, 24V DCSafety ELV (SELV) voltage.
- Supplied complete with screw-less quick coupling actuator mounting brackets (patented) and quick coupling/release awning or hopper window brackets (patented).
- Stroke-end: electronic opening stroke-end with variable strokes that can be selected at any time with the dip-switches. Closing stroke-end with power absorption.
- Can be connected in parallel. Complies with EU directives (EMC Directive, Low Voltage Directive).
- Standard colours: Black (ref. RAL9004) with black power cable, White (ref. RAL9003) and Grey (ref. RAL7047) with white cable.



TO BE USED WITH:

KATO and KATO SYNCRO² 24V:
 BK-LOCK
 Series KL and Series KL-R
 MODIX2/4/6
 MY-SUN1 and MY-SUN3

KATO and KATO SYNCRO³ 230V:
 Series KH and Series KH-R
 RR2-M

KATO ADV RADIO 230V:
 PIK
 NRS1