

# Modus

Automation for swing gates



# Modus

## Automation for swing gates with leaves up to 4,2 m - 500 Kg

### PATENTED PERFORMANCES

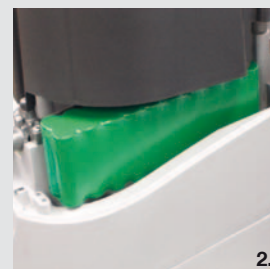
Thanks to its patented mechanics, Modus can automate big gates with dimensions up to 4,2 m and 500 Kg. It has a precise mechanical limit switch regulation that allows a fine adjustment of the wing in opening and closing. Easy and fast to install with its 165mm of width, available in two motor versions with two standard arms and two optional arms with sliding and rotating features for every type of installation. 4 kilograms of aluminum, 4-stage gear box entirely in stainless and high-quality synthetic lubricant make Modus a indestructible automation and can be used at any temperature. The 24V motor allows intensive use installations.

### ELECTRONIC CONTROL

Star M224 is the control units of Modus. It simplifies the life of the installer, guaranteeing extremely high performances in terms of safety, durability and speed. The complete software speeds up the installation of the automation and the maintenance becomes simple and practical. The spare fuses and the removable memory card are some examples of the functionality and design of a reliable and innovative product. The software technology PWM (Pulse width modulation) ensure the safety in case of obstacle and allow the adjustment of the opening and closing speed of the gate.



1.



2.



3.

### 1. CONTROL UNIT

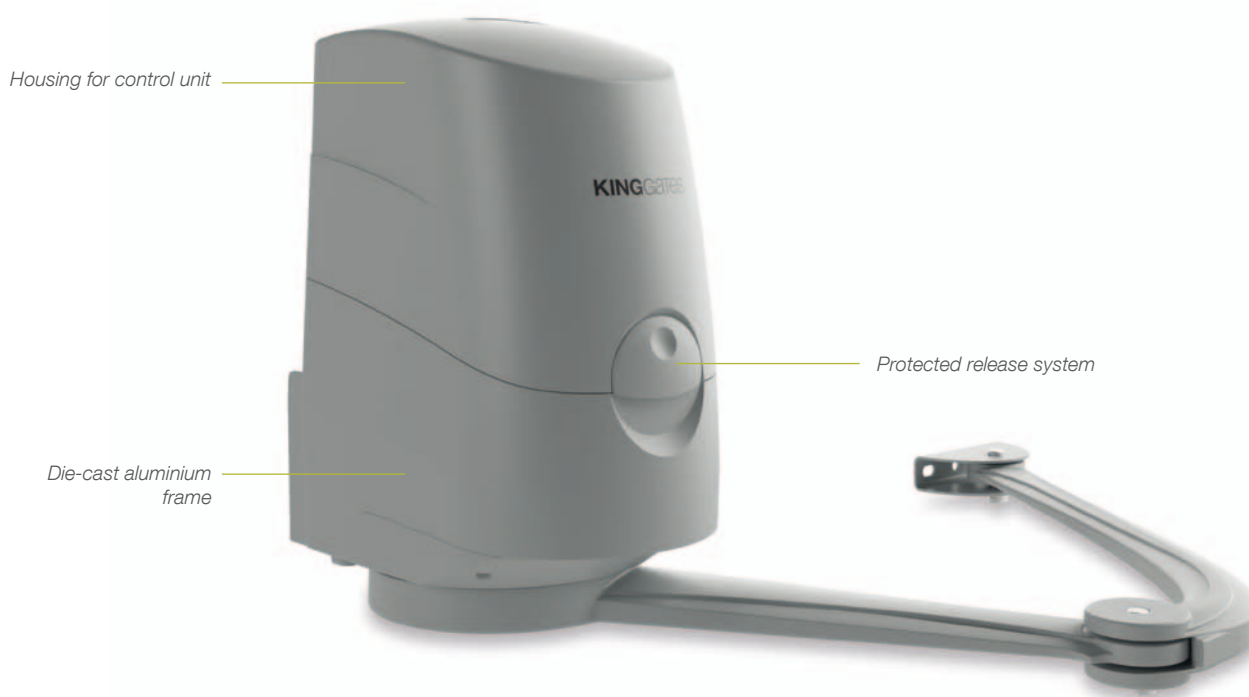
Fast regulation with trimmers and dip-switches, programming with self-learning function

### 2. ARTICULATED ARM

Strong die-cast aluminium arm with anti-shearing device

### 3. MECHANICAL LIMIT SWITCH

Strong adjustable steel limit switch



## TECHNICAL DATA

Code		MODUS 280	MODUS 420
Power supply	(Vac 50 Hz)	230	
Motor	(Vac/Vdc)	24	
Motor power	(W)	30	45
Speed	(Rpm)	0,9 ÷ 1,5	
Absorption	(A)	1,25	1,87
Weight	(kg)	7,5	
Max length of the gate	(m)	2,8	4,2
Max weight of the gate	(kg)	300	500
Cycle of work	(%)	50	
Dimensions	(mm)	165x250x306	
Working temperature	(°C)	-20 ÷ +55	

## AVAILABLE VERSIONS



## MOTORS - AVAILABLE VERSIONS

Code	Motor	Electronic unit	Radio receiver	Mechanical stop	Fixing kit	Wing max dimensions
Modus 280 SL	24 Vdc	-	-	• (2)	•	2,8 m; 300 kg
Modus 280 MA	24 Vdc	Star M 224	•	• (2)	•	2,8 m; 300 kg
Modus 420 SL	24 Vdc	-	-	• (2)	•	4,2 m; 500 kg
Modus 420 MA	24 Vdc	Star M 224	•	• (2)	•	4,2 m; 500 kg

## KIT - AVAILABLE VERSIONS

Code	Modus 280 MA	Modus 280 SL	Modus 420 MA	Modus 420 SL	MO Link 420	Stylo 4K	Idea 24 Plus	Viky 30	Tab	Wing max dimensions
Modus Kit 280	•	•			• (2)	• (2)	•	•	•	2,8 m; 300 kg
Modus Kit 280 LT	•	•			• (2)	• (1)		•		2,8 m; 300 kg
Modus Kit 420			•	•	• (2)	• (2)	•	•	•	4,2 m; 500 kg
Modus Kit 420 LT			•	•	• (2)	• (1)		•		4,2 m; 500 kg

Code	Modus 280 MA	Modus 280 SL	Modus 420 MA	Modus 420 SL	MO Link 420	Stylo 4K	Novo LT 24 Plus	Novo PH 180	Tab	Wing max dimensions
<b>Novo Kit</b>										
Modus Kit 280 NV	•	•			• (2)	• (2)	•	•	•	2,8 m; 300 kg
Modus Kit 420 NV			•	•	• (2)	• (1)	•	•	•	4,2 m; 500 kg

Gear motors Modus don't include the arm of connection to the leaf. It is necessary to choose the most suitable arm for the gate in the list of the following page.  
Kits include the arm MO LINK 420.

## CONNECTION ARMS



### MO LINK 180

For leaves up to 1.8 m.  
Distance between the axle of rotation of the gate and the fixing surface of the gear motor 200 mm.



### MO LINK 420

For leaves up to 4.2 m.  
Distance between the axle of rotation of the gate and the fixing surface of the gear motor 350 mm.



### MO L C18 SX

Sliding arm for wing up to 1,8 m - 300 Kg.  
Left version.

### MO L C18 DX

Sliding arm for wing up to 1,8 m - 300 Kg.  
Right version.



### MO Link R42

Rotative arm  
(Inclination +/- 8°)  
Wing max dimensions 4,2 m - 500 Kg

## ACCESSORIES



### BK 40

Mechanical limit switch  
(2 pieces)



### SBLO 800

External release



### BAT M 016

Batteries 24V 1,6Ah



### BAT K2

Battery charge card  
for Bat M016



### LOCK HO

Horizontal  
electro lock 12V



### LOCK VE

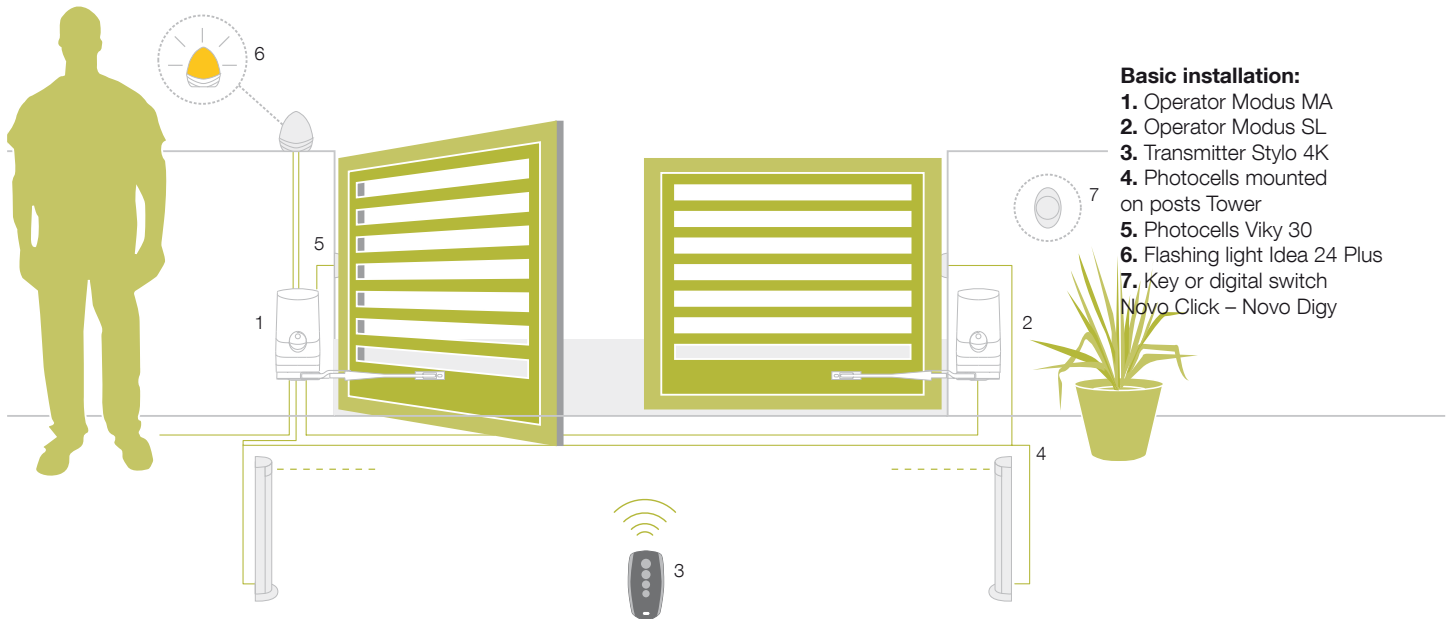
Vertical  
electro lock 12V



### STAR M224 BOX

Electronic control unit  
with plastic box, transformer  
and radio receiver for one  
or two Modus SL

## SCHEME OF INSTALLATION



### Basic installation:

1. Operator Modus MA
2. Operator Modus SL
3. Transmitter Stylo 4K
4. Photocells mounted on posts Tower
5. Photocells Viky 30
6. Flashing light Idea 24 Plus
7. Key or digital switch Novo Click – Novo Digy