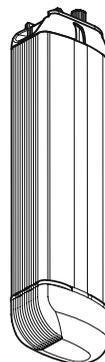
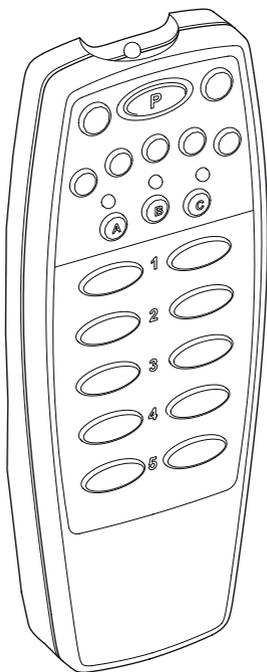


Infrared manual

EN

Transmitter **6040-1100**

For G-Motion



Goelst *IR* receiver
6040-2200 required

Infrared control	5
1.1 Products	5
1.2 Preparation	6
1.3 Button layout.....	7
First use	9
2.1 Auto calibration	9
Programming.....	11
3.1 Programming Goelst G-Motion motor units.....	11
3.2 Overview Programming menus	12
3.3 Programming options.....	13
MENU 1	
1.1 Set end positions	13
1.2 Set IR channels	14
1.3 Set RF channels	14
MENU 2	
2.1 Opening and Closing Speed.....	15
2.2 Intermediate positions	15
2.3 Light sensor	16
2.3.1 Sun light sensitivity	16
2.3.2 Dawn/Dusk light sensitivity.....	17
2.3.3 Light Sensor behaviour.....	18
2.4 CPS: Curtain Protection System	19
2.4.1 Touch and Go.....	20
2.4.2 Touch and Stop.....	21

MENU 3

3.1 Operation mode.....22
3.2 Inverted input.....23
3.3 Timer 24
3.4 - 3.6 (Reserved).....24
3.7 Factory settings25

Technical specifications27

3.1 Transmitter.....27
3.2 LED signals.....28
3.3 Connections.....29

Infrared control

1.1 Products

Goelst G-Motion motor units offer a wide range of features for optimal use in many situations. Feature settings can be changed and stored by means of the buttons on the motor unit itself or other controllers, e.g. the IR transmitter.

During programming there is visual feedback from the multicolor LED in the motor unit.



*IR transmitter
6040-1100*

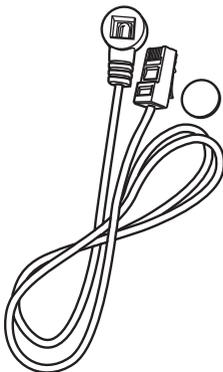
Transmitter

Goelst G-Motion electric curtain rail systems can be operated and programmed with the Goelst Infrared transmitter (6040-1100) and Infrared receiver (6040-2200).

The IR transmitter can transmit 15 different channels. On the Infrared transmitter IR channel 'A1' is pre-programmed as default.

To make changes in IR channels, see p11 : "SET IR Channels" in MENU1.

The transmitter uses 2 x AAA batteries (included)



*IR receiver
6040-2200*

IR Receiver

The infrared receiver is provided with 1 RJ45 plug and a IR-receiving eye. Cord length is 100cm.

The RJ45 plug is placed in the underside of the motor unit (see below for detailed instructions)

The adhesive dot is used to place the receiving eye with its back against a surface, such that IR signals from the transmitter can reach the eye.

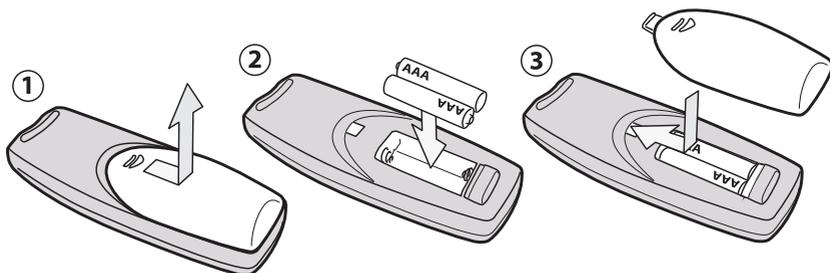
Each receiver responds to up to 15 channels. This way, a curtain rail system can respond to its individual IR signal and also to IR signals for a set 'group' or 'all systems'.

1 Infrared control

1.2 Preparation

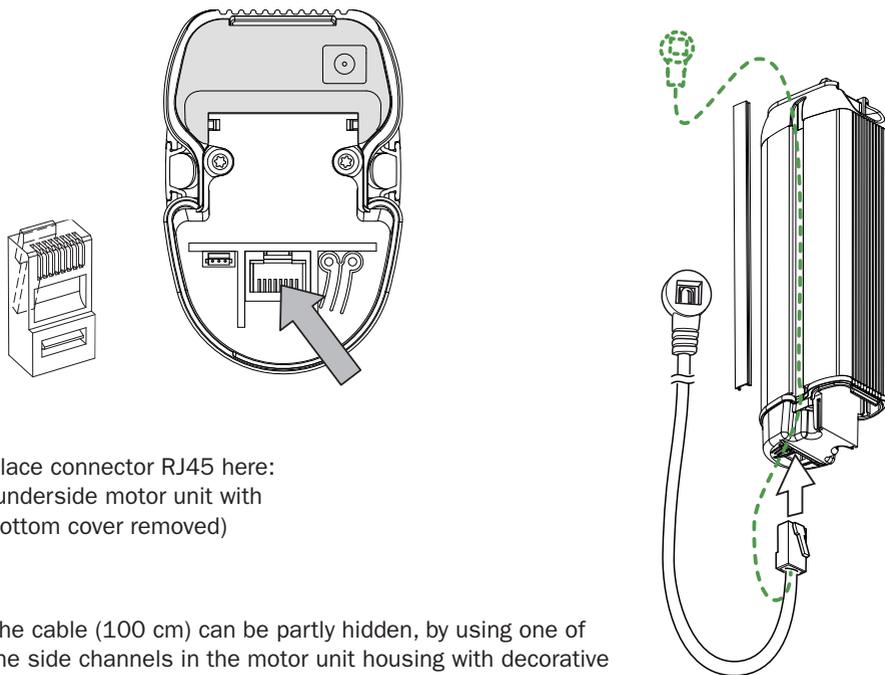
Transmitter

Place the batteries in the transmitter, 2 x AAA.



IR Receiver

The connecting lead with RJ45 plug has to be inserted in the bottom side of the motor unit.



Place connector RJ45 here:
(underside motor unit with
bottom cover removed)

The cable (100 cm) can be partly hidden, by using one of the side channels in the motor unit housing with decorative strip. Replace bottom cover to finish.

Multiple curtain rail systems

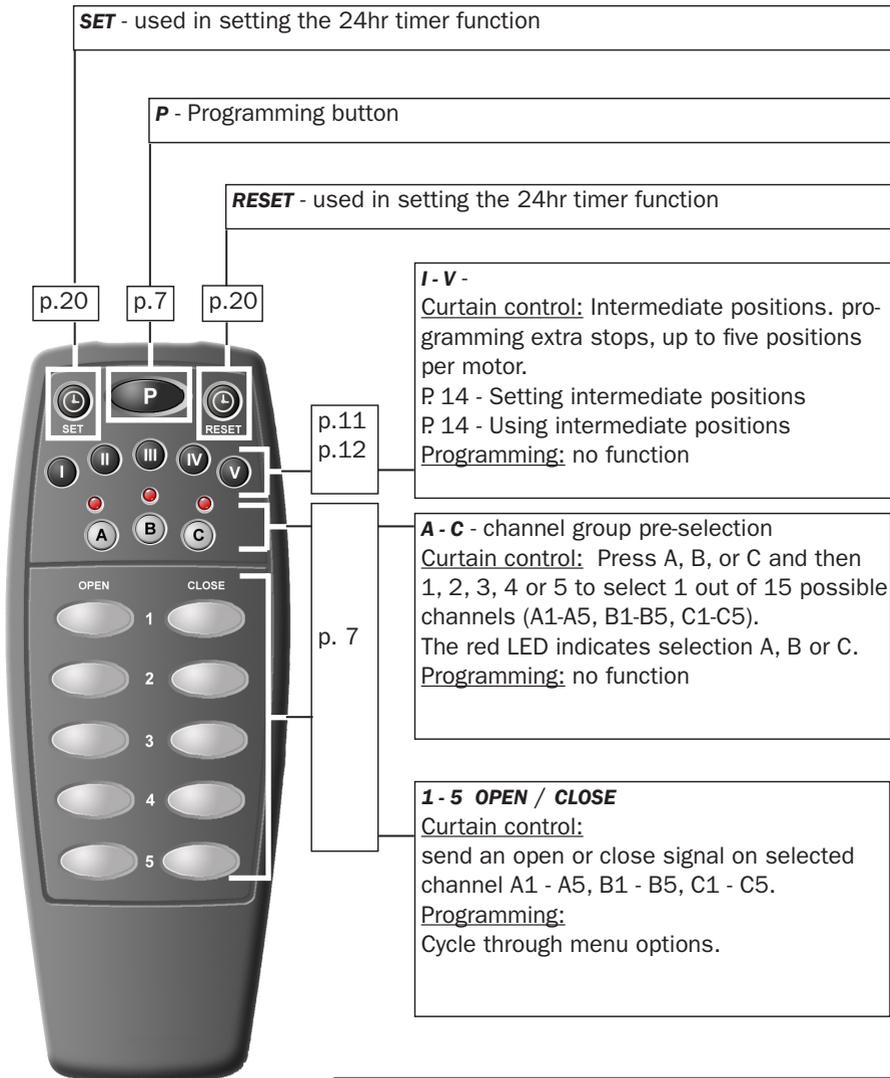
Provide each system with an IR receiver, make sure to program systems one by one.

1.3 Button layout

The remote control 6040-1100 can be used for operating and programming G-Motion motor units. Below an overview of the various buttons and their use.

Button timings:

- "Shortly press the button(s)" = keep pressed less than 1 second.
- "Press and hold the button(s)" = keep pressed for more than 1 second.



2 First use

First use

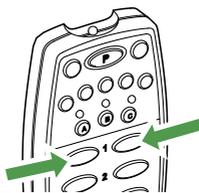
2.1 Auto calibration

The system will auto calibrate its end positions on first use, when the system is powered and operated for the first time via IR channel 'A1'.

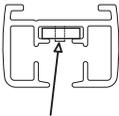
After auto calibration, the system is ready for use and responds to Infrared channel 'A1' as default.

For Motor types for GM-x**21**-xxxx/x and GM-x**10**-xxxx/x (NOT for GM-**1**xx-xxxx/x/)

To fine tune end positions during auto calibration, these buttons can be used:



1. Place the motor unit onto the curtain rail system (see G-Motion manual).
2. Place the curtains if possible and then adjust internal endstop(s) if necessary for improved curtain pleating. (art. 6002, Allen key 2). These stops are pre-secured and limit the running distance of the pilot carrier. During the auto calibration cycle below, electronically defined 'soft stops' will be set with the 6002 stops as reference.



3. Connect an active power source (type depends on motor unit type).
4. Shortly press one of the buttons on the underside of motor unit or the controlling device.
5. The LED on the motor unit now flashes red.
6. The system will run until it is stopped by the internal end stop.
7. The system will move ~1cm in opposite direction and then waits for 5 seconds: within 5 seconds start fine tuning this end position if necessary, using the buttons.
8. After 5 seconds without signal, the calibration cycle continues. The system now runs in opposite direction until it is stopped by the internal end stop.
9. The system will move ~5cms and then waits for 5 seconds: within 5 seconds start fine tuning this end position if necessary, using the buttons.
10. After 5 seconds without signal, the system will move 20cm in Open direction, the cycle stops and the red LED switches off. CPS mode is switched on automatically. The system is now ready for use.

During auto calibration, the cycle can be aborted at all times by pressing one of the buttons.

Programming

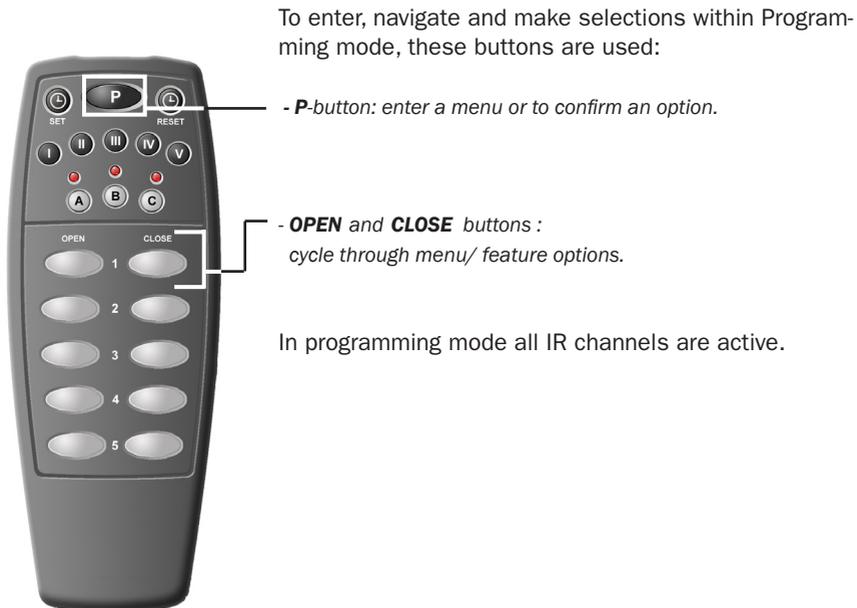
3.1 Programming Goelst G-Motion motor units

Goelst G-Motion motor units offer a wide range of features for optimal use in many situations. See § 3.2 on p. 12 for an overview of all available features.

Feature settings can be changed and stored using the buttons on the motor unit itself or the Infrared transmitter.

Programming is done with aid of visual feedback from the multicolor LED in the motor unit. Each programming feature is represented by 1 colour, for example the feature 'setting end positions', shows a red LED.

Feedback also consists of blinking patterns to identify the selected feature setting.



To enter, navigate and make selections within Programming mode, these buttons are used:

- **P**-button: enter a menu or to confirm an option.

- **OPEN** and **CLOSE** buttons :
cycle through menu/ feature options.

In programming mode all IR channels are active.

In the event of a power cut, the infrared channels will remain stored in the motor unit.

3 Programming

3.2 Overview Programming menus

		LED mode	LED colour
	Menu 1	ON	White
1.1	End positions	ON	Red
1.2	Set infrared Channels (IR)	ON	Green
1.3 *)	RF	ON	Yellow
	(reserved)		

		LED mode	LED colour
	Menu 2	blinks slowly	White
2.1	Speed	ON	Red
2.2	DryC. IntermediatePos.	ON	Green
2.3	Light sensor		
2.3.1	Sun sensor	ON	Yellow
2.3.2	Dawn/Dusk sensor	ON	Blue
2.3.3	Sensor mode	ON	Purple
2.4	CPS		
2.4.1	Touch and Go	ON	Orange
2.4.2	Touch and Stop	ON	Light blue

		LED mode	LED colour
	Menu 3	blinks fast	White
3.1	Control mode		Red
3.2	CW/CCW Inverted input		Green
3.3	Timer		Yellow
	(reserved)		
3.7	Factory settings		Light blue

*) If you have RF control, see RF manual for further control and programming options.

3.3 Programming options

MENU 1

1.1 Set end positions

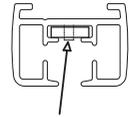
motor LED colour red: 

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

Infrared channel ,A1' on the transmitter is active by default.

1. Place the curtains if possible and then adjust internal endstop(s) if necessary for improved curtain pleating. (art. 6002, Allen key 2mm). These stops are pre-secured and limit the running distance of the pilot carrier. During the auto-calibration cycle below, electronically defined 'soft stops' will be set with the 6002 stops as reference.



2. Press and hold the **P**-button on the transmitter until the LED **ON THE MOTOR UNIT** turns white (after ~4s.).
3. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is red.
4. Shortly press the **P**-button to enter the feature menu, the LED on the motor unit now flashes red.
5. The system will run until it is stopped by the internal end stop.
6. The system will move ~1cm in opposite direction and then waits for 5 seconds: within 5 seconds start fine tuning this end position if necessary, using the **OPEN** or **CLOSE** buttons.
7. After 5 seconds without signal, the calibration cycle continues. The system now runs in opposite direction until it is stopped by the internal end stop.
8. The system will move ~5cms and then waits for 5 seconds: within 5 seconds start fine tuning this end position if necessary, using the **OPEN** or **CLOSE** buttons.
9. After 5 seconds without signal, the system will move 20cm in Open direction. This completes calibration and the red LED on the motor unit switches off. CPS mode is switched on automatically. The system is now ready for use.

3 Programming

1.2 Set IR channels

motor LED colour green: 

Add and erase IR channels using the Infrared remote control

Connect the infrared receiver to the underside of the motor unit. By default channel 1 is active.

Ensure the IR transmitter signals can reach the IR receiver.

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

1. Press and hold the **P**-button on the transmitter until the LED **ON THE MOTOR UNIT** turns white (after ~4s.).
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is green.
3. Shortly press the **P**-button to enter the feature menu.
4. The LED on the motor unit now flashes green.
5. A Activate a channel To activate an IR channel, shortly press the **OPEN** button of the desired channel on the IR transmitter. The LED on the motor unit responds with a short continued green signal and then starts flashing again. If desired, add more channels one by one to this motor unit, via **OPEN** buttons of corresponding IR channels.
5. B De-activate a channel To de-activate an IR channel, shortly press the **CLOSE** button of that channel on the IR transmitter. The LED on the motor unit responds with a short continued red signal and then starts flashing again. If desired, de-activate more channels one by one to this motor unit, via **CLOSE** buttons of corresponding IR channels.

5a and 5B can be used in random order

6. Shortly press the **P**-button to confirm the settings.
7. The LED on the motor unit is white again for 15 seconds: using the buttons another MENU 1 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

1.3 Set RF channels

motor LED colour yellow: 

(See RF manual)

MENU 2

2.1 Opening and Closing Speed

motor LED colour red:

Option to select 1 of 4 pre-defined speed settings. Default setting is „Normal“.

*Note: After 15s. without input, the motor unit quits programming mode.
Please first read each step for this feature.*

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is red.
3. Shortly press the **P**-button to enter the feature menu,
4. The LED on the motor unit now flashes red, at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= Normal speed (Default)
2x flash	= High speed
3x flash	= Low speed
4x flash	= Open at low speed - Close at high speed / Custom speed.
6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

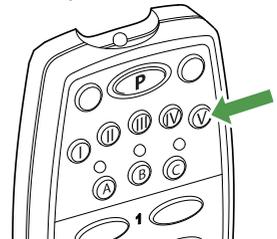
*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

2.2 Intermediate positions

motor LED colour green:

Define up to 5 intermediate curtain stopping positions, in between the systems end positions. Default is setting is none.

Intermediate positions can quickly be recalled by pressing I, II, III, IV or V + after that **OPEN** or **CLOSE** within 3s. of the desired channel on the IR transmitter. The system automatically moves to the intermediate position (independent of the chosen direction **OPEN** or **CLOSE**).



3 Programming

Note: After 15s. without input, the motor unit quits programming mode.
Please first read each step for this feature.

SET / ERASE intermediate positions (IR)

1. Using **OPEN** or **CLOSE** buttons, move the curtain in a desired position, to set a new intermediate position or to erase an existing one.
2. Press and hold the **P**-button until the LED **ON THE MOTOR UNIT** slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button pressed)
3. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is green.
4. Shortly press the **P**-button to enter the feature menu,
5. The LED on the motor unit now flashes green, at the current setting (1)
6. Shortly press one of the buttons I, II, III, IV or V on the IR transmitter to store the current curtain position; existing intermediate positions saved to that button previously will be erased.
7. Confirm and store setting by shortly pressing the **P**-button.
8. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
9. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

To store another intermediate position, repeat § 2.2.2 entirely.

To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.

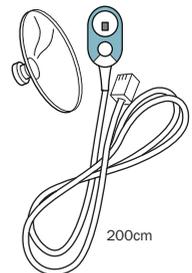
2.3 Light sensor

The advanced Goelst Light sensor offers

- 1) **Sun light** related sensitivity
- 2) **Dawn/Dusk** related sensitivity
- 3) detailed **behaviour** settings

Default setting for both Sun and Dawn/Dusk sensitivity is „Standard“
see § 2.3.1 and § 2.3.2

Default setting for overall behaviour is „Close at Dusk“.
see § 2.3.3.



2.3.1 Sun light sensitivity

motor LED colour yellow:

To use the Sun sensor, define its sensitivity (see below) AND its behaviour (§ 2.3.3).

*Connect the Goelst light sensor to the underside of the motor unit via the RJ45 plug.
Make sure that the sensor is properly placed and oriented correctly towards the light source.*

If light intensity exceeds set intensity for more than 5 mins. uninterrupted the sensor generates a close signal.

If light intensity stays below set intensity for more than 15 mins. uninterrupted the sensor generates an open signal.

The response to these signals can be defined in § 2.3.3.

If a Sun light induced event is overruled by another controlling signal (manual operation, time controlled, remote control), the sensors Sun signal will be ignored for 4 hrs.

The Sun sensor signal is effective again after these 4 hrs. or after a power cut.

*Dawn/Dusk events are not affected by an overruled Sun sensor event.
Note: After 15s. without input, the motor unit quits programming mode.
Please first read each step for this feature.*

SET Sun light sensitivity

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button(s) pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is yellow.
3. Shortly press the **P**-button to enter the feature menu,
4. The LED on the motor unit now flashes yellow at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= Normal sun intensity (Default)
2x flash	= Low sun intensity
3x flash	= High sun intensity
4x flash	= current sun intensity
6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

2.3.2 Dawn/Dusk light sensitivity motor LED colour blue:

To use the Dawn/Dusk sensor, define its sensitivity (see below) AND its behaviour (§ 2.3.3).

*Connect the Goelst light sensor to the underside of the motor unit via the RJ45 plug.
Make sure that the sensor is properly placed and oriented correctly towards the light source.*

If light intensity exceeds set intensity for more than 5 mins. uninterrupted the sensor gener-

3 Programming

ates an open signal (Dawn).

If light intensity stays below set intensity for more than 5 mins. uninterrupted the sensor generates a close signal (Dusk).

The response to these signals can be defined in § 2.3.3.

If a Dawn/Dusk light induced event is overruled by another controlling signal (manual operation, time controlled, remote control), the sensors Dawn/Dusk signal will be ignored for 4 hrs. The Dawn/Dusk sensor signal is effective again after these 4 hrs. or after a power cut.

Sun light events are not affected by an overruled Dawn/Dusk sensor event.

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

SET Dawn/Dusk sensitivity

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button(s) pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is blue.
3. Shortly press the **P**-button to enter the feature menu,
4. The LED on the motor unit now flashes blue at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= average light intensity (Default)
2x flash	= below average light intensity
3x flash	= above average light intensity
4x flash	= current light intensity
6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

2.3.3 Light Sensor behaviour

motor LED colour purple: 

To make use of the light sensor, define its response to Sun light signals and Dawn/Dusk light signals. There are 8 preset patterns available.

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

SET Light sensor behaviour

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white

- (after ~8s.) (First the LED will turn white continuously, keep the button(s) pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is purple.
 3. Shortly press the **P**-button to enter the feature menu,
 4. The LED on the motor unit now flashes purple at the current setting:
 5. Cycle through the options below using **OPEN** or **CLOSE**:

LED	Dawn/Dusk		Sun	
	OPEN	CLOSE	OPEN	CLOSE
1x flash *)	Off	On	Off	Off
2x flash	On	On	On	On
3x flash	Off	Off	On	On
4x flash	On	On	Off	Off
5x flash	Off	On	On	On
6x flash	On	On	Off	On
7x flash	Off	Off	Off	On
8x flash	Off	Off	Off	Off

*) Default setting

6. Confirm and store setting by shortly pressing the **P**-button.
 7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
 8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.
- The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

2.4 CPS: Curtain Protection System

(only GM-4xx-xxxx Series)

CPS is an intelligent declutching mechanism, it allows to manually operate the curtains.
Touch and go: If a stationary hanging curtain is pulled sideways along the system, CPS will detect movement and the curtain will automatically open or close depending on the pulling direction.
Touch and Stop: Similarly, if a curtain is already moving, the movement can be stopped by pulling the curtain in opposite direction from which it is moving.
Manual override: CPS also allows to manually move the curtains of G-Motion electric curtain rail systems in case of a power cut. When power returns and the curtain was moved during the power cut, the system starts recalibrating after the first controlling signal.
 Touch and Go or Touch and Stop are set independently in § 2.4.1 and § 2.4.2 below.

3 Programming

Note: CPS response is subject to curtain weight, system layout and chosen threshold values. CPS is meant as a manual overruling possibility or for occasional use in case the user is unaware that the system is electrically operated; CPS is not suitable as standard controlling option. Disclaimer: Though risk of damage is reduced by CPS, CPS cannot entirely prevent curtains or curtain rail systems from being damaged. CPS is not advised for use in sloped systems.

2.4.1 Touch and Go

motor LED colour orange: 

Touch and Go sensitivity is adjustable. For example at higher sensitivity, the motor unit will pick up de manual operation sooner than at average sensitivity. At lower sensitivity setting, a larger manual move of the curtain is needed before the motor unit takes over. This function can also be switched off.

Note: After 15s. without input, the motor unit quits programming mode. Please first read each step for this feature.

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button(s) pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is orange.
3. Shortly press the **P**-button to enter the feature menu.
4. The LED on the motor unit now flashes orange at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= average sensitivity (Default)
2x flash	= lower sensitivity
3x flash	= higher sensitivity
4x flash	= Off
6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

2.4.2 Touch and Stop

motor LED color light blue: 

Touch and Stop self-calibrates during first 3 completed runs of the system, after resetting (new) end positions, changes in speed settings or after reactivating the feature.

Touch and Stop feature has 2 settings: On or Off.

In some cases the Touch and Stop feature might not function as expected: this is the case when curtain fabric causes friction with floor, walls or the curtain track itself.

Or in case of any other source of resistance, causing the Touch and Stop function to be activated.

Touch and Stop auto-calibrates at regular intervals, but in cases it can be advised to start self calibration by switching this feature off and on again. If unexpected stopping of the system remains, it is advised to switch off this feature.

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

1. Press and hold the **P**-button until the LED on the motor unit slowly flashes white (after ~8s.) (First the LED will turn white continuously, keep the button(s) pressed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is light blue.
3. Shortly press the **P**-button to enter the feature menu.
4. The LED on the motor unit now flashes light blue at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= On (Default)
2x flash	= Off
6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit slowly flashes white again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 2 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

3 Programming

MENU 3

3.1 Operation mode

3 different operation modes are available, defining how the motor unit responds to **OPEN** and **CLOSE** commands from 1- or 2-button controls.

Settings:

1 Standard 2-button operation (default setting)

button press < 1s. : system moves to endposition

button press > 1s. : system moves small distance

2 Inverted 2-button operation ('vertical blinds' setting)

button press < 3s. : system moves small distance

button press > 3s. : system moves to endposition

Note: recalling intermediate positions or programming end positions for the first time is not possible when this feature setting is active.

3 1-button operation

button press < 1s. : system closes, opens or stops

1. When the system is in one of its end positions:
 - > move to opposite end position.
2. When the system is moving:
 - > STOP
3. After a stop, press button again within 2s:
 - > move in opposite direction
4. After a stop, press button again after 2s:
 - > continue in same direction

Note: recalling intermediate positions is not possible when this feature setting is active.

After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

SET Operation mode

motor LED colour red: 

1. Press and hold the **P**-button until the LED on the motor unit flashes white at high speed (after ~12s.) (First the LED will turn white continuously, then flashes white slowly, keep pressed until the LED flashes white at high speed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is red.
3. Shortly press the **P**-button to enter the feature menu.
4. The LED on the motor unit now flashes red at the current setting:
5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash = Standard 2-button operation (Default)

2x flash = Inverted 2-button operation

3x flash = 1-button operation

6. Confirm and store setting by shortly pressing the **P**-button.
7. The LED on the motor unit flashes white at high speed again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 3 feature can be selected.
8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

3.2 Inverted input

Reverse the rotation of the motor unit: **OPEN** becomes **CLOSE** and vice versa.

*Note: After 15s. without input, the motor unit quits programming mode.
Please first read each step for this feature.*

- SET Inverted input motor LED colour green: 
1. Press and hold the **P**-button until the LED on the motor unit flashes white at high speed (after ~12s.)
(First the LED will turn white continuously, then flashes white slowly, keep pressed until the LED flashes white at high speed)
 2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is green.
 3. Shortly press the **OPEN+CLOSE** buttons or a **P**-button to enter the feature menu,
 4. The LED on the motor unit now flashes green at the current setting:
 5. Cycle through the options below using **OPEN** or **CLOSE**:

1x flash	= Normal input (Default)
2x flash	= Inverted input
 6. Confirm and store setting by shortly pressing the **P**-button.
 7. The LED on the motor unit flashes white at high speed again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 3 feature can be selected.
 8. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

3 Programming

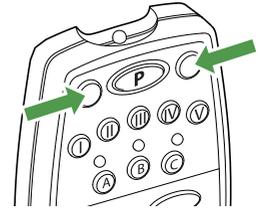
3.3 Timer

motor LED color yellow:

The built-in timer offers a 24hrs repeating function.

With the 24hrs repeating function a usage pattern can be recorded, which then will repeat every 24hrs.

The 24hrs repeating function can be easily switched ON with **SET** and can be paused with **RESET** on the IR remote control.



24hrs Timer

The built-in 24hrs timer is a self learning timer, that can record up to 4 events which will be replayed every 24 hrs.

1. 24hrs Timer: Learning mode

Activate Learning mode by pressing **SET** on the remote control for > 5s.

The LED in the motor unit flashes yellow: the timer will record max. 4 events during max. 24hrs. Until recording mode ends, the LED on the motor unit slowly flashes yellow.

Note: By activating the learning mode, previous recordings will be erased.

2. 24hrs Timer: On

After learning mode or after pressing and holding **SET** on the remote control for > 5s the timer is automatically set to 'ON'. Recorded events will be replayed every 24hrs. While 24hrs Timer is 'ON', the LED on the motor unit displays a short yellow signal every 20s.

The 24hrs Timer can only be 'ON' if events have been recorded.

3. 24hrs Timer: Pause and restart

Shortly press **RESET** on the IR remote control to pause the 24hrs timer. Recorded events will remain in memory.

While 24hrs Timer is 'Paused', the LED on the motor unit displays 2 short yellow signals every 20s.

Shortly press **SET** on the IR remote control to restart the 24hrs timer, replaying events at their originally recorded time of day.

4. 24hrs Timer: Erase

Press and hold **RESET** on the IR remote control for >5s. to reset the 24hrs Timer, this erases recorded events and switches the timer off. The LED on the motor unit is off.

In case of a Power Cut the timer will be reset, unless the motor unit is provided with an accu pack.

3.4 - 3.6 (Reserved)

3.7 Factory settings

Switch to Factory settings, recalling all default settings, being option 1 in every settings menu. This erases all changes made. When making settings after choosing this feature, the motor unit behaves as a new motor unit.

Note: After 15s. without input, the motor unit quits programming mode.

Please first read each step for this feature.

SET Factory settings

motor LED color light blue: 

1. Press and hold the **P**-button until the LED on the motor unit flashes white at high speed (after ~12s.) (First the LED will turn white continuously, then flashes white slowly, keep pressed until the LED flashes white at high speed)
2. Repeatedly press any **OPEN** or **CLOSE** button until the LED on the motor unit is light blue.
3. Shortly press the **P**-button to enter the feature menu.
4. The LED on the motor unit now flashes light blue.

ATTENTION: IN THE NEXT STEP, ALL SAVED CHANGES WILL BE ERASED AND THE MOTOR UNIT IS PUT BACK TO IS FACTORY SETTINGS. TO SKIP, WAIT 15 S. UNTIL THE LED ON THE MOTOR UNIT SWITCHES OFF.

5. Confirm by shortly pressing the **P**-button: the motor unit has now been put back in its factory settings.
6. The LED on the motor unit flashes white at high speed again for 15 seconds: using the **OPEN** or **CLOSE** buttons another MENU 3 feature can be selected.
7. Otherwise, wait for 15 seconds or shortly press the **P**-button to quit programming.

The LED on the motor unit switches off, the system is ready to use.

*To quit programming at any time, repeatedly press the **P**-button or wait for 15s. Changes made at 5 will only be saved if confirmed by pressing the **P**-button.*

Technical specifications

3.1 Transmitter

6040-1100	
	
head on range	15 m*
remote angle coverage 20° up/down	7 m*
remote angle coverage 25° left/right	7 m*
buttons	21
infrared code	Dedicated RC5 ID
IR transmission LED	1
visible LED for mode indication	3
stuck key time-out	yes
battery	2x AAA (3V)**

*Transmission range depends upon the receive angle and the sensitivity of the receiver and other factors e.g. direct sunlight.
(Angle and range tests are based on a NEC carrier based code.).

**Battery life shall be at least one year assuming 100 buttons presses per day with each button press lasting 0.5 sec. (typically 36,500 button presses).

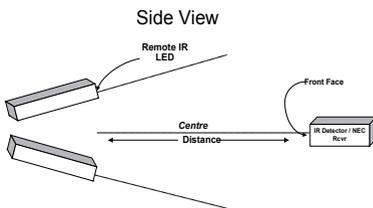


Figure 1
Rotate UUT Up and Down
See Range Section for angle.

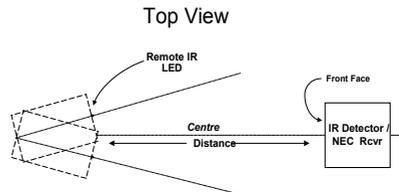


Figure 2
Rotate UUT Left and Right
See Range Section for angle.

4 Technical specifications

3.2 LED signals

Normally LED signals stop after 15 s.

1. **LED colors** : green, red, yellow, blue purple orange or light blue - continuous or blinking:
 - *normal programming mode colors.*
2. **LED flashes yellow** - and keeps flashing for more than 15 s.
 - *the 24hrs timer is recording*
3. **LED flashes yellow** once every 20 s.
 - *the 24hrs timer is active*
4. **LED flashes yellow** twice every 20 s.
 - *the 24hrs timer is paused*
5. **LED displays rainbow colors** continuously.
 - *the showroom timer is active*

System failure

1. No response to IR remote control.

- *check batteries of IR remote control*
- *make sure channel A1 is selected on the IR transmitter or that other IR channels have been set.*
- *check if RJ45 plug is correctly placed in the underside of the motornuit.*
- *check if the receiver can receive IR signals emitted from the IR transmitter.*

2. Curtain stops at unexpected positions along the track

- *recalibrate Touch and Stop feature or turn this feature off.*

3. Curtain moves in opposite direction, compared to controls.

- *go through § 3.2 : inverted input from controls*

Power cut: Smart start-up.

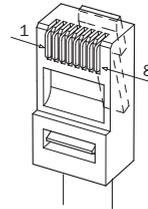
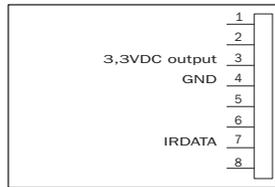
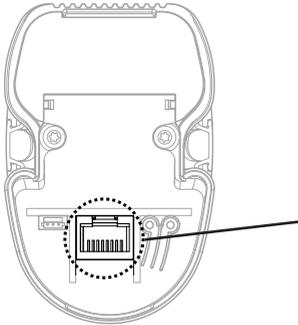
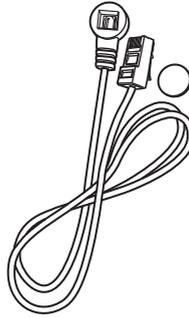
A power cut generally causes no problem for G-Motion. The system will detect the event of a power cut. After power has returned AND the curtain was displaced manually, the system will recalibrate itself, using electronically stored end positions values and using the internal end stops as a reference.

In case of a power cut during the self-calibrating cycle: no settings will be stored. Ensure power has been restored, then restart the cycle by shortly pressing **OPEN** or **CLOSE**.

3.3 Connections

connector : RJ45
 use : infrared receiver

pin layout RJ45:



Connect necessary wiring only

4 Technical specifications

Example channel overview

Button	System	
A - 1	<i>window left</i>	
A - 2	<i>window right</i>	
A - 3	<i>window left</i>	<i>window right</i>

Channel overview

Button	System							
A - 1								
A - 2								
A - 3								
A - 4								
A - 5								
B - 1								
B - 2								
B - 3								
B - 4								
B - 5								
C - 1								
C - 2								
C - 3								
C - 4								
C - 5								

Notes

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The Netherlands

