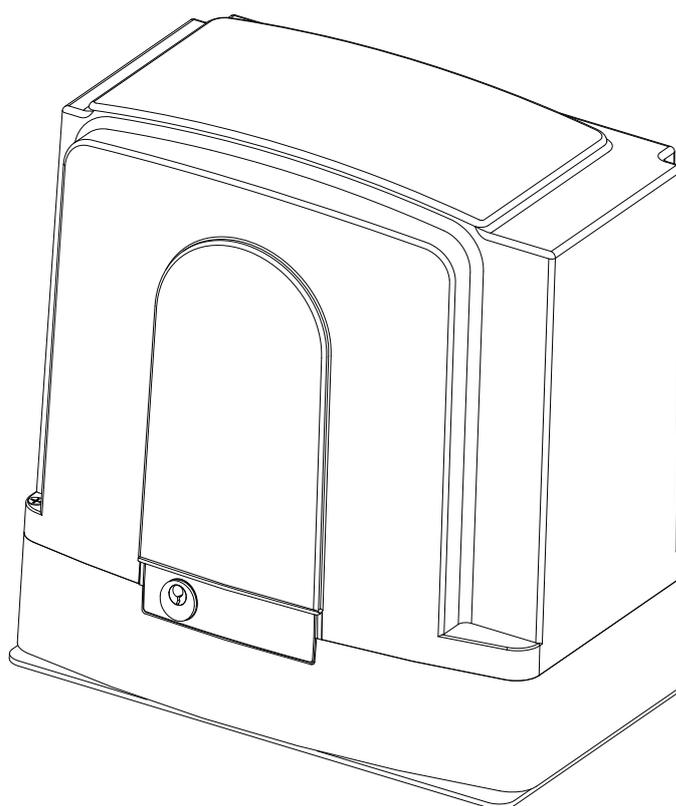


use and maintenance manual

# MOOVY

AUTOMATIONS FOR SLIDING GATES (230/110/24V)



**qui»lö**<sup>®</sup>  
opening solutions

TECHNICAL FEATURES	HIGH SPEED						
	QK-M300B	QK-M800BFX	QK-M1000B	QK-M800	QK-M1200	QK-M1500	QK-M2000
Power	24Vdc	24Vdc	24Vdc	230Vac 50 / 60Hz	230Vac 50 / 60Hz	230Vac 50 / 60Hz	230Vac 50 / 60Hz
Current absorbed (motor) (A)	4	11	11	1,3	1,5	1,9	2,4
Power absorbed (W)	100	280	280	270	330	440	600
Capacitor (µF)	-	-	-	13	16	16	16
Protection level (IP)	54	54	54	54	54	54	54
Speed (m/min)	12	20	12	12	12	12	12
Max. gate weight (kg)	300	800	1000	800	1200	1500	2000
Working temp. (°C Min/Max)	-30/+70	-30/+70	-30/+70	-30/+70	-30/+70	-30/+70	-30/+70
Thermal protection (°C)	-	-	-	140	140	140	140
Insulation class	F	F	F	F	F	F	F
Working cycle (%)	100	100	100	50	50	50	70
Weight (kg)	9	10	10	12	14	15	17

Also available in 110V. Please add "110" to the item code for 110Vac version  
For 110Vac version, 230Vac in this user manual must be intended as 110Vac.

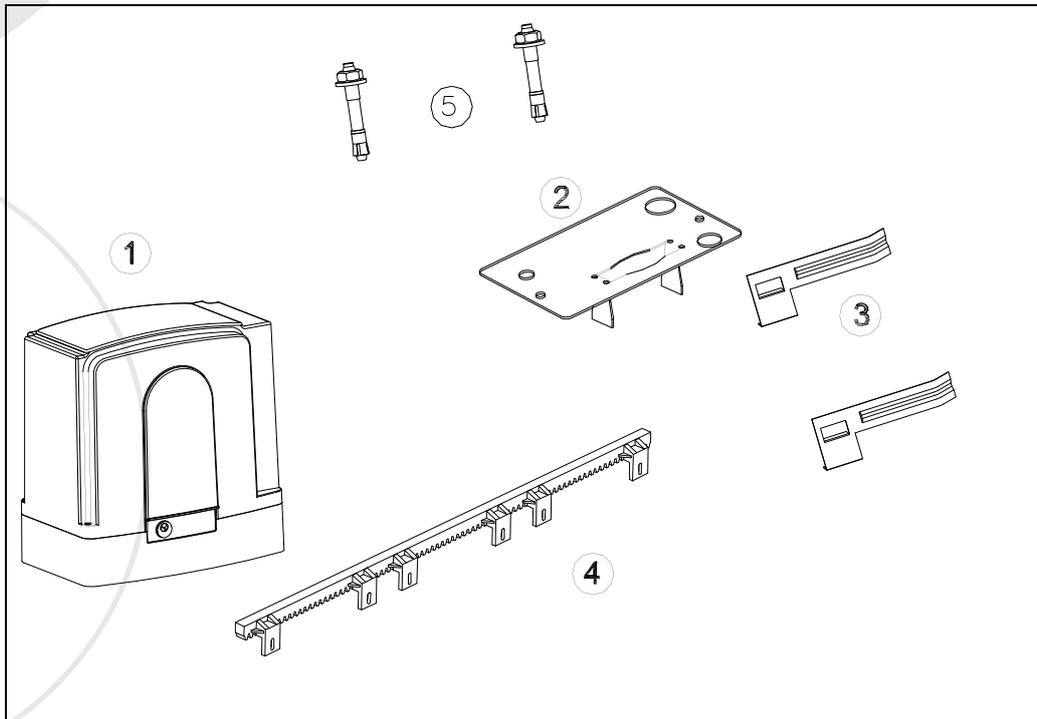
## 1- BEFORE INSTALLING THE AUTOMATION

Before installing the automation, you must check that:

- The wheels of the gate are attached to make the gate stable and must be in good condition;
- The entire length of the fixed rail must be free of obstacles, straight and clean and have stoppers at the ends;
- The upper guide, must be parallel to the rail and lubricated, and it must allow for a clearance of about 1 mm from the door

Quiko Italy Sas is liable only for products it manufactures and commercializes. Once automated, the gate becomes a machine and is therefore subject to the rules of the " Machinery Directive". It is on the installer to verify its security. **WARNING:** Quiko Italy Sas is not liable for any damages to people, animals or things due to unauthorised modifications, alterations or betterments on its products by third parties.

## 2- MATERIALS FOR INSTALLATION



**FIG. 1**

1. Gearmotor
2. Counterplate
3. Limit switches brackets (cammes)
4. M4 rack (NOT INCLUDED)
5. M10 Anchor bolts (NOT INCLUDED)

### 3- POSITIONING THE COUNTERPLATE

Dig a concrete foundation base following measurements shown on fig. 2, 3. Position the counterplate making sure it is perfectly levelled and smooth and complying with the measurements shown on fig. 2, 3. Route the conduits through the base holes and let them come out for at least 25 cm. If a concrete foundation base is already available, do not unfold the anchor leaves and fasten the base only with the anchor bolts.

### 4- POSITIONING THE GEARMOTOR

Drill two holes  $\varnothing$  10 mm on the concrete in correspondence of the holes of the counterplate. Install the anchor bolts and fasten to the concrete. Remove the gearmotor removable cover. Position the gearmotor onto the counterplate. Temporary fasten the gearmotor to the base by tightening the anchor bolt nuts. The gearmotor position can be adjusted horizontally of approx. 15 mm

If the anchor bolts are not available it is possible using 2 bolts M10x25. The head of the bolts shall be tack welded to the base plate before the counterplate is embedded on the concrete

### 5- INSTALLING THE RACK

Use a M4 Rack. Release the gearmotor and set the gate in the open position. Place the rack on pinion leaving at least 2 mm of gap between the gear teeth. Fasten the rack to the gate in such manner that the bolts are in the middle of the rack slots (in this way it shall be possible adjust in the future the right gap between the rack and pinion). Move the gate manually to secure all rack pieces along its full length. Once the rack has been installed, finally check the gap of 2 mm between the pinion and the rack. Finally secure the gearmotor with the nuts.

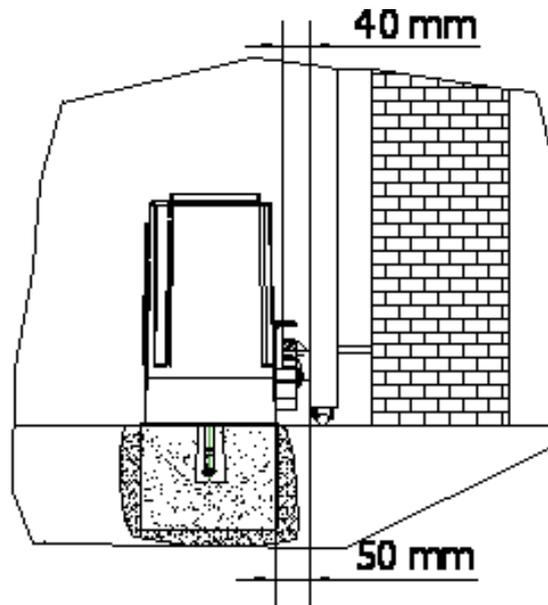


FIG 2

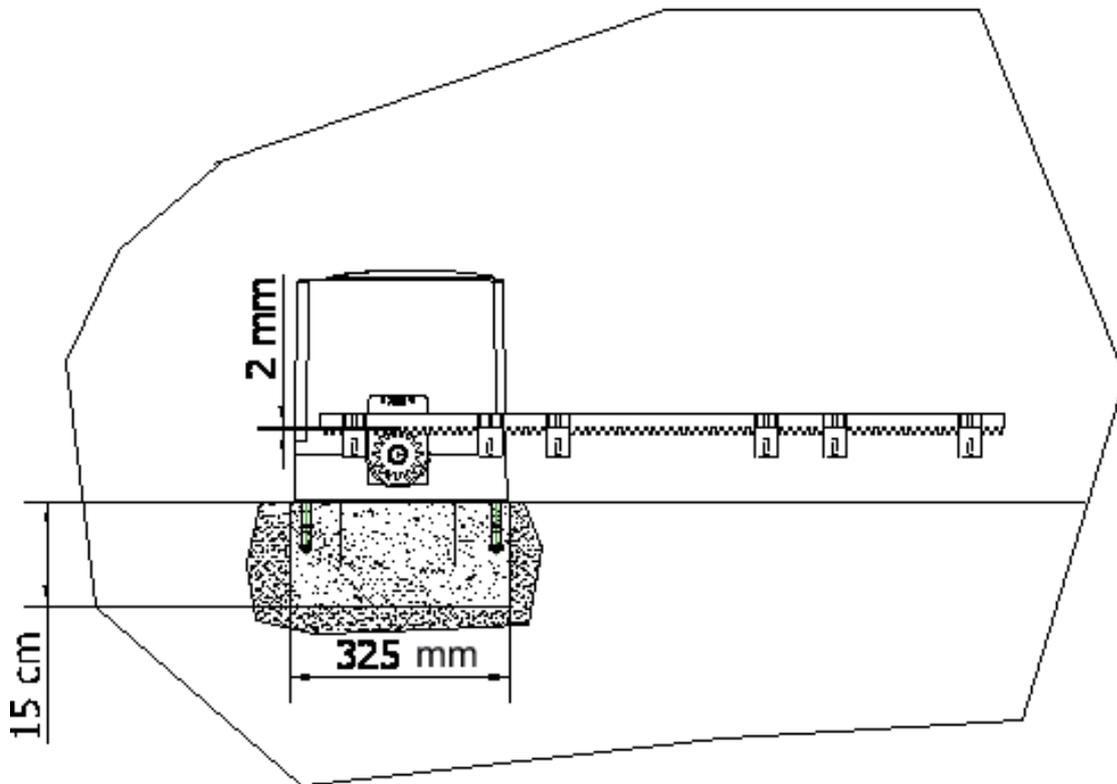


FIG. 3

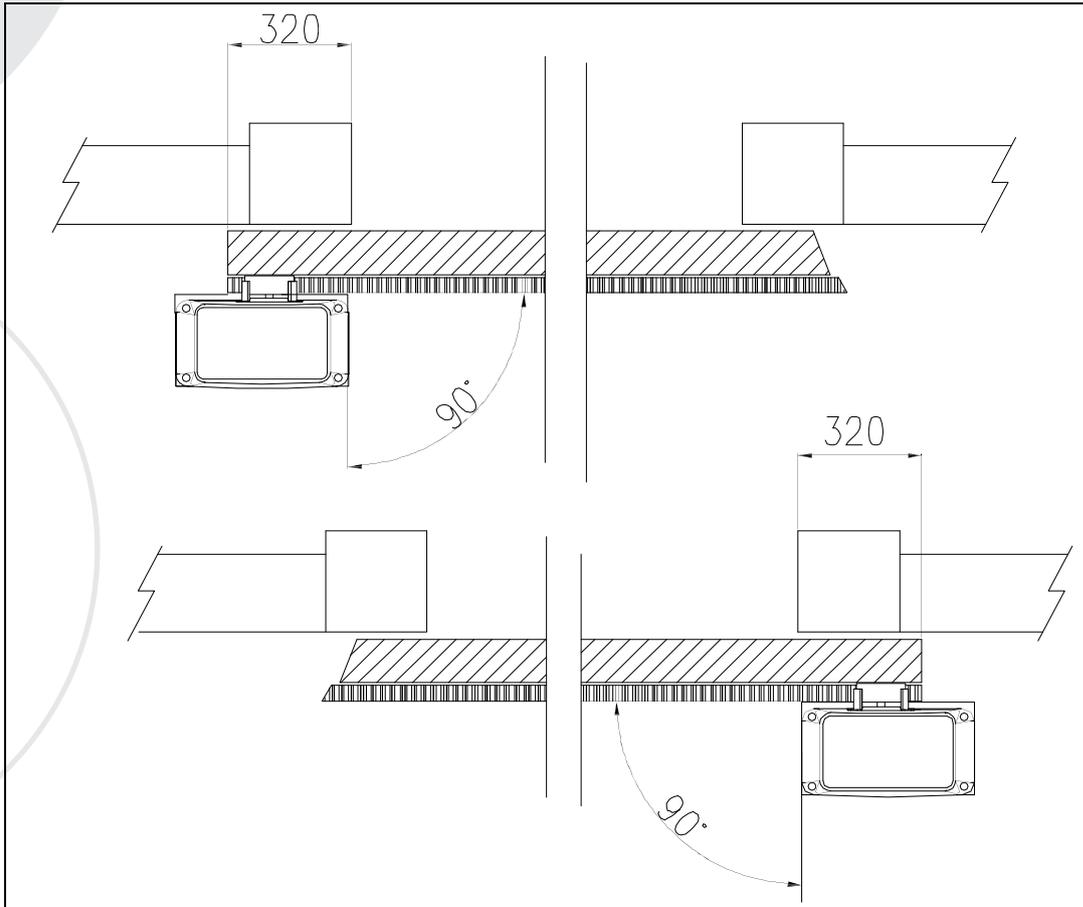


FIG. 4

## 6- POSITIONING THE LIMIT SWITCHES BRACKETS (CAMMES)

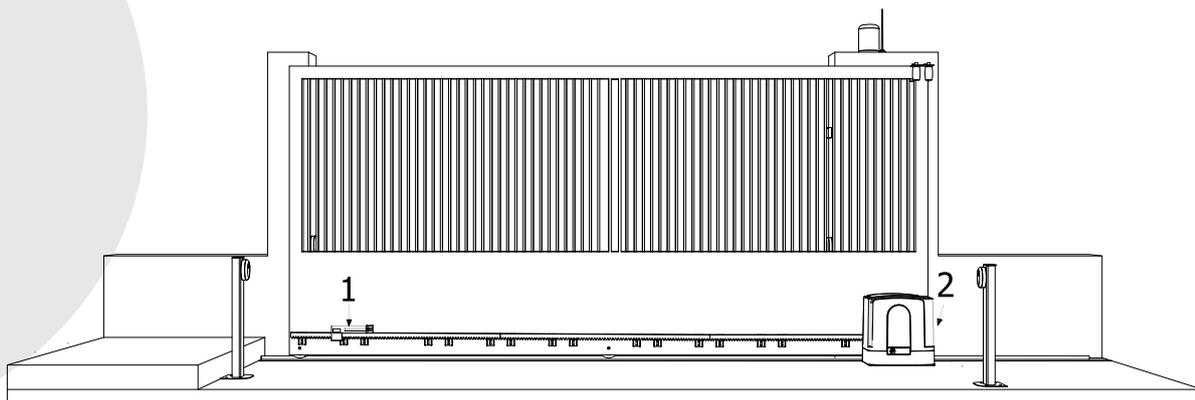
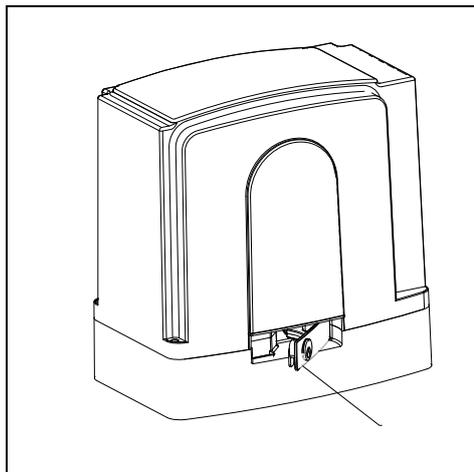


FIG. 5

Manually position the gate completely open and fasten the limit switch brackets (1) (2) onto the rack so that the limit switch lever exceeds the length of the brackets by approximately two-thirds. Repeat the operation with gate completely closed. Provide power and carry out some opening and closing operations (see control board user manual). Adjust the limit switch brackets so that the gate stops approximately 20 mm before the opening and closing stops.

## 7- UNLOCKING THE MOTOR MANUALLY



**FIG.6**

### **RELEASE INSTRUCTION**

In case of fault or power failure, insert the key in the lever lock and turn it of 90°CW. Pull and turn the lever approx. 90° until it stops and the gate move manually.

⚠ **WARNING:** perform locking and lock release operations with motor cut off.

### **LOCK INSTRUCTION**

To re-lock the gearmotor, return the lever in closed position and lock it and take the key away.

## 9- TYPICAL INSTALLATION

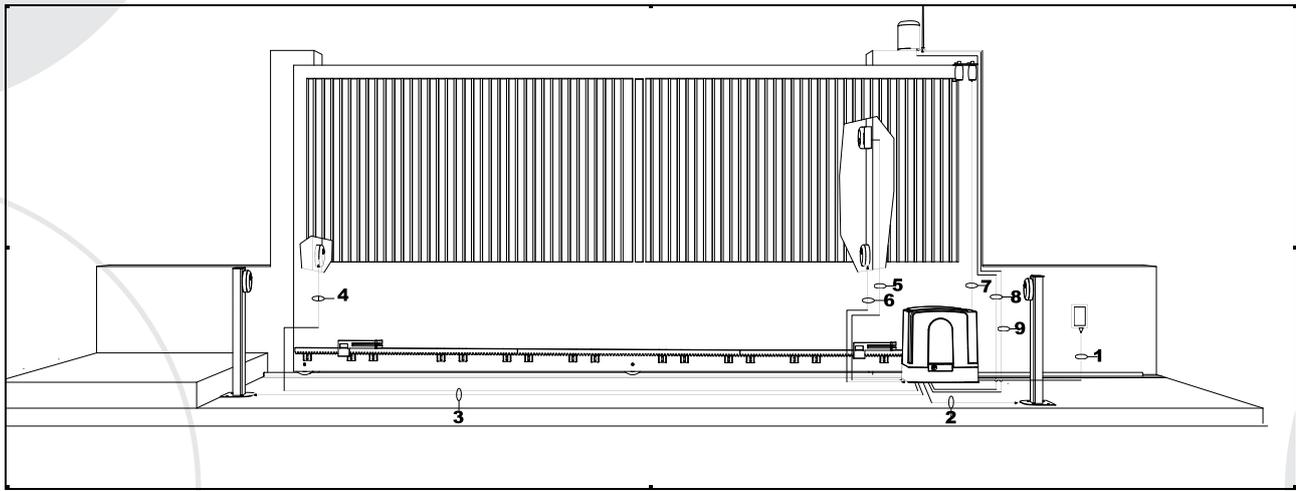


FIG. 9

### CONNECTIONS CABLES

		Cables section sqmm
1	POWER SUPPLY	3x1,5
2	TX PHOTOCELL ON POST	2x0,75
3	RX PHOTOCELL ON POST	4x0,75
4	TX PHOTOCELLS	2x0,75
6	RX PHOTOCELLS	4x0,75
5	KEY SELECTOR	3x1
7	FLASHING LAMP	2x1
8	AERIAL	RG59

**FOR THE ELECTRICAL CONNECTIONS REFER TO THE USER MANUAL OF THE CONTROL BOARD**

## GENERAL ADVICE

Install a gate's safety system that complies with current regulations. Choose short routes for cables and keep power cables separate from control ones. Install the control card in a waterproof box. Please refer to current regulations when setting the gear motor's maximum torque. We advise you to install an outdoor switch, in compliance with European standards on the issue of safety, to turn the electricity off when servicing the gate. Check that each single installed device is efficient and effective. Affix easily readable signs warning about the presence of a motorised gate.

## USE

It is absolutely forbidden to use the device for any other purposes. The installed electronic unit (which must have built-in electric friction), allows to select the following functions:

automatic: one control impulse will open or close the gate;  
semi-automatic: one control impulse will open or close the gate.

In case of a blackout, manual operation is possible by activating the unlocking device. Having an automatic and electric power device requires special attention in a few situations:

- not to touch the device with wet hands and/or wet or bare feet;
- to turn off electricity before opening the control box and/or actuator;
- not to pull the lead to pull the plug out;
- to put the gate in movement only when it is completely visible;
- to keep out of the gate's range of action if it is moving. Wait until it has stopped;
- not to let children or animals play near the gate;
- not to let children use the remote control or other operating devices;
- to carry out routine maintenance;
- in case of failure, to turn off electricity and operate the gate manually only if it is possible and safe. Refrain from touching the gate and call an authorised technician.

## MAINTENANCE

The MOOVY SERIES geared motors are manufactured for long-term use. Nonetheless, their normal operation can be compromised by the conditions of the gate; therefore, we will list some operations to keep the gate efficient.

Warning: Non-specialized staff cannot operate the gate during maintenance. You are advised to cut the network power in order to avoid accidents or shocks. If the power must be on for various inspections, you are advised to check and/or deactivate any possible control devices (remote controls, keyboards, etc...) except for the device used by the maintenance operator.

### Routine maintenance

Each of the following operations must be done when needed and in all cases at least every 6 months:

#### Gate

- Lubricate the gate's sliding wheels;
- Check the cleanliness and air-tightness of the rack.

#### Automation System

- Check the operation of the safety devices (photo-cells, ribs, torque limiter) using the methods described by the suppliers

### Extraordinary Maintenance

If special maintenance is required for mechanical parts, you are advised to send the gear motor out for repairs to be performed by the technicians at the manufacturer.

## DECLARATION OF CONFORMITY

(OF THE MANUFACTURER)



**Manufacturer: QUIKO ITALY SAS**

Via Seccalegno, 19  
36040 Sossano (VI)  
Italia

hereby declares, under his liability, that the products:

QK-M300B, QK-M1000B, QK-M800BFX, QK-M800, QK-M1200, QK-M1500, QK-M2000

are in compliance with the essential safety requirements of the regulations:

- ✓ Electromagnetic Compatibility Directive .....2004/108/EC
- ✓ Low Voltage Directive .....2014/35/EC
- ✓ Machinery Directive .....2006/42/EC

and their amendments and modifications, and with the regulations set forth by the National Legislative Body of the country in which the machinery is destined for use.

Sossano, 19/10/2011

Managing Director  
Luca Borinato

**DECLARATION OF CONFORMITY**  
(OF THE INSTALLER)

The undersigned:

---

Address:

---

in charge of the set-up, declares that the product:

Gate type:

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Location:

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are in compliance with the essential safety requirements of the regulations:

- ✓ Electro magnetic Compatibility Directive .....2004/108/EC
- ✓ Low Voltage Directive .....2014/35/EC
- ✓ Machinery Directive .....2006/42/EC

and also declares that the related and/or specific national technical regulations have been followed:

- ✓ EN 12453/EN 12445 on Industrial, Commercial and Residential Gates and Doors – Safe Use of Motorized Doors – Requirements and Classification – Test Methods;
- ✓ EN 12604/ EN 12605 on Industrial, Commercial and Residential Gates and Doors – Mechanical Aspects – Requirements and Classification – Test Methods;
- ✓ CEI 64/8 Electrical Systems Using Nominal Tension Not Higher Than 1000V a.c. and 1500 V d.c.;
- ✓ EN 13241-1 (Industrial, commercial and garage doors and gates), conformity evaluation (6.3).

Notes:

Place and date: .....





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