

use and maintenance manual

# ICARUS

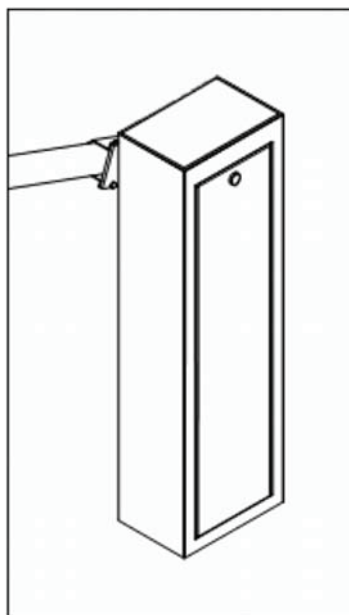
AUTOMATIC BARRIER


QK-I30B

QK-I40B

QK-I50B

QK-I60B



**qui**  **lö**®  
opening solutions

# CONTENTS

<b>TECHNICAL FEATURES</b>	<b>3</b>
<b>PRE-INSTALLATION CONTROL</b>	<b>3</b>
<b>MEASURES TO BE RESPECTED</b>	<b>4</b>
<b>SITE PREPARATION</b>	<b>5</b>
<b>ANCHORING OF THE BARRIER</b>	<b>5</b>
<b>SECURING OF ROD AND BALANCING</b>	<b>5</b>
<b>MANUAL UNLOCKING</b>	<b>6</b>
<b>LIMIT SWITCHES ADJUSTMENT</b>	<b>6</b>
<b>ACCESS TO THE CONTROL UNIT COMPARTMENT</b>	<b>7</b>
<b>ADJUSTEMENT OF DIRECTION</b>	<b>7</b>
<b>IMPORTANT</b>	<b>8</b>
<b>USE</b>	<b>8</b>
<b>EXTRAORDINARY MAINTENANCE AND REPAIRS</b>	<b>8</b>
<b>TYPICAL SYSTEM</b>	<b>9</b>
<b>MAINTENANCE RECORD BOOK</b>	<b>10</b>
<b>DECLARATION OF COMPLIANCE (1)</b>	<b>12</b>
<b>DECLARATION OF COMPLIANCE (2)</b>	<b>13</b>

TECHNICAL FEATURES	QK-I30B	QK-I40B QK-I50B QK-I60B
Power	24Vdc	
Power absorbed (W)	80	
Current absorbed (motor) (A)	2,5	
Protection level (IP)	55	
Motor shaft speed (rpm)	1400	
Output shaft speed (rpm)	7,3	1,7
Reduction ratio	1/138	1/820
Opening time (s)	2	7
Working temp. (°C Min/Max)	-30/+70	
Work cycle (%)	100	
Weight (kg)	45	49
Insulation class	F	
Thermal cut-out (°C)	-	-
Maximum rod length (m)	3	6,25

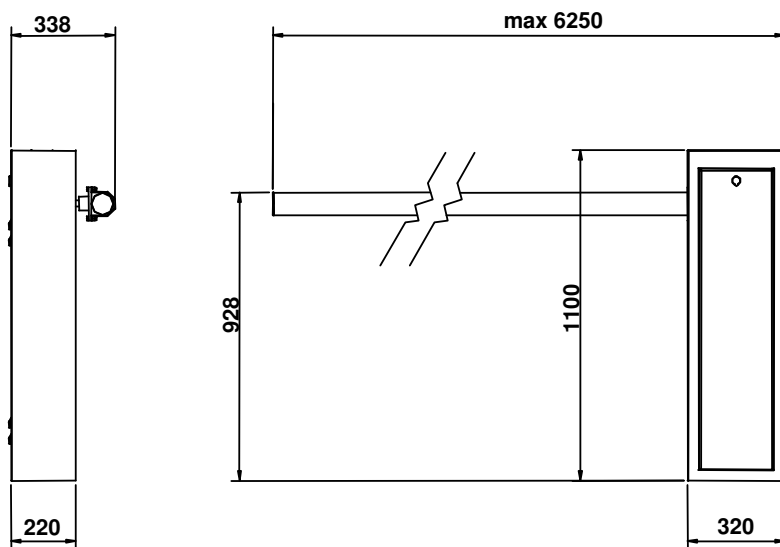
### PRE-INSTALLATION CONTROL

The following principles must be followed in addition to the functionality:

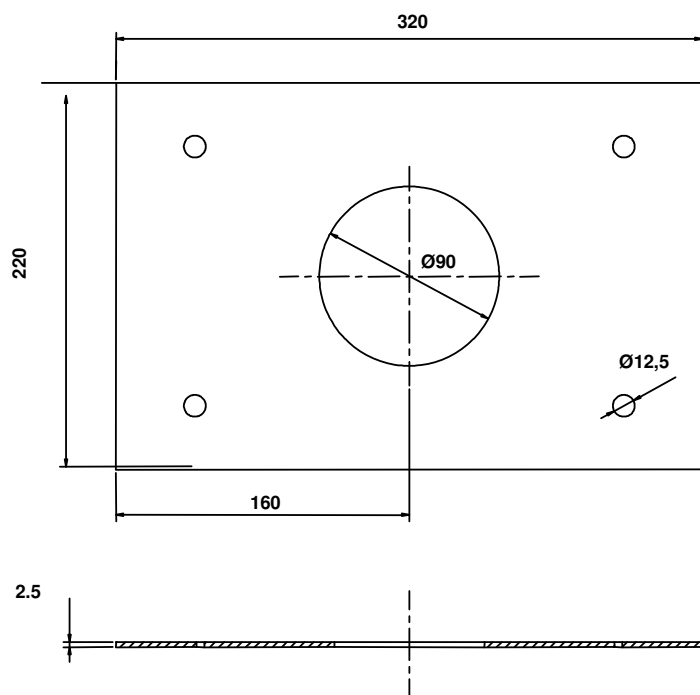
- before installing the bar, make sure that the area above the bars free of all obstacles (balconies, cables, trees, etc.)
- a good visibility at a sufficient distance to avoid collision (pay attention to bushes, etc.)
- suitable base to guarantee the secure positioning of the barrier
- absence of pipes and/or electrical cables that could be damaged when preparing the site
- minimization of the length of the electrical cables that are necessary to operate the barrier
- positioning in accordance with the present national standards.

**Quiko Italy Sas** is liable only for products it manufactures and commercializes. Once automated, the barrier becomes a machine and is therefore subjected 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 unauthorized modifications, alterations or betterments on its products by third parties.

**MEASURES TO BE RESPECTED**

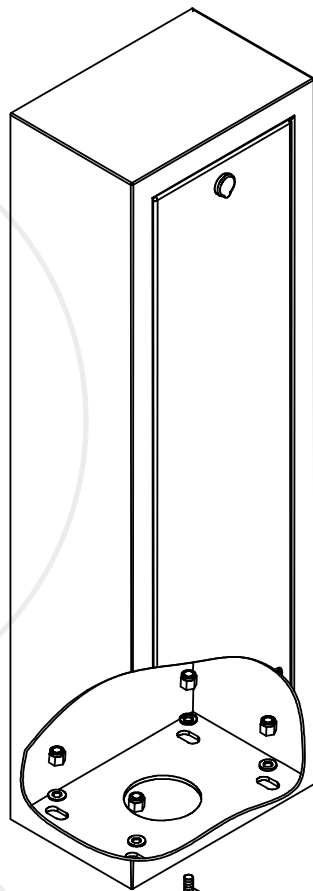


The main dimensions of the barrier are indicated in Fig. 1; Fig. 2 illustrates the dimensions of the foundation base plate.



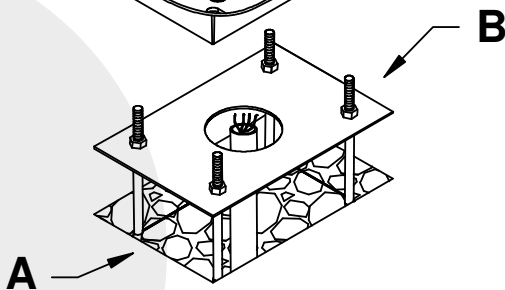
**fig. 2**

## SITE PREPARATION



Construct a rectangular concrete slab (A fig. 3) of suitable size which includes cable outlet holes. If possible use the foundation base plate (B fig. 3), with the 4 supplied tie bars to submerge into the slab; or secure the barrier cabinet directly to the finished slab with 4 anchor bolts M10x120. The thickness of the slab must be at least 10 cm, remembering that it can be deeper if the ground conditions require it.

fig. 3



## ANCHORING OF THE BARRIER

The barrier is now placed in position, without the bar, and fixed to the base by securely tightening the nuts to the tie bars. The perfect stability of the anchorage is controlled and if necessary, the nuts are tightened further.

## SECURING OF ROD AND BALANCING

Balancing is fundamental for the correct function of the barrier. This operation is only performed after the rod has been fitted into its final position with all accessories.

All operations are performed with the power supply switched off and the barrier released (see chapter "manual unlocking"); close the end with the supplied cap insert the bar into the bar holder and secure it with the 6 bolts and nuts; keeping at a safe distance, operate the manual release.

The rod must lift to 45° on its own, otherwise turn the spring preloading nut. Lower the bar, release it and check that it has reached 45°.

Note: if needed load is greater than what permitted when balancing, move the eyelet into the hole on the right or left to increase or decrease the load capacity.

## MANUAL UNLOCKING

To unlock the barrier, open the front door and lift the appropriate release lever as illustrated within the figure below. **ATTENTION: Do not release if the rod is not introduced!**



## LIMIT SWITCHES ADJUSTMENT

The barrier is supplied with limit switches already adjusted in order to allow ideal movement of the rod. In this case of incorrect levelling of the plate to be cemented, the rod may not result perfectly horizontal or vertical with consequent bad installation aesthetics. To adjust the limit switches manually, loosen the 2 relative screws and turn the cam till to desired position.



## ACCESS TO THE CONTROL UNIT COMPARTMENT

To access the control unit, open the cover on top of the barrier by loosening the screws on sides.



## ADJUSTMENT OF DIRECTION

All Quiko barriers are supplied (factory) as right versions. To modify the direction of movement of the rod, changing it to the left version, proceed as follows:

- loosen the spring screw fasteners and remove the screws
- remove the screw fasteners and remove the lever as illustrated within the figure below
- remove the limit switches cams
- fix everything again in the opposite position
- adjust the retainers and limit switches again



## **IMPORTANT**

1. An efficient grounding in compliance with the present standards for the safety of the equipment is extremely important. The manufacturer cannot be held responsible for possible damages due to the non-compliance of the said standard.
2. For safety reasons a thermal-magnetic circuit breaker should ideally be positioned prior to the barrier to control the power supply in the event it must be turned off.

## **USE**

The barrier has been exclusively designed to limit the flow of vehicles and/or persons in restricted entrances by means of a bar.

Furthermore, it also comprises electrical equipment and therefore must be approached and used with caution and foresight. In particular we recommend:

- not to perform the automatic or semiautomatic function in the presence of known or suspected malfunctions;
- not to pull the cable to disconnect the equipment;
- not to let children, or those unable, use the cabinet keys or controls (including remote controls) even if only to play with;
- not to operate the barrier until it is completely in view;
- not to enter within the operating range while it is moving, wait for it to stop;
- not to rest against the bar or cabinet for any reason, even when the barrier is inactive and do not remain within the operating range of the barrier;
- not to let children or animal play within the operating range of the barrier;
- not to use the barrier for purposes (e.g. lifting of weights or persons) other than those foreseen. The manufacture holds no responsibility what so ever for damages caused by the said actions;
- to perform periodic maintenance by specialized personnel;
- if there is a fault, turn off the power supply. Use the manual movement only if safe.

Do not attempt to resolve the problem yourself, contact a qualified technician of the manufacturer or authorized by the manufacturer. In any case, make sure that the spare parts are original so that the safety of the barrier is not compromised.

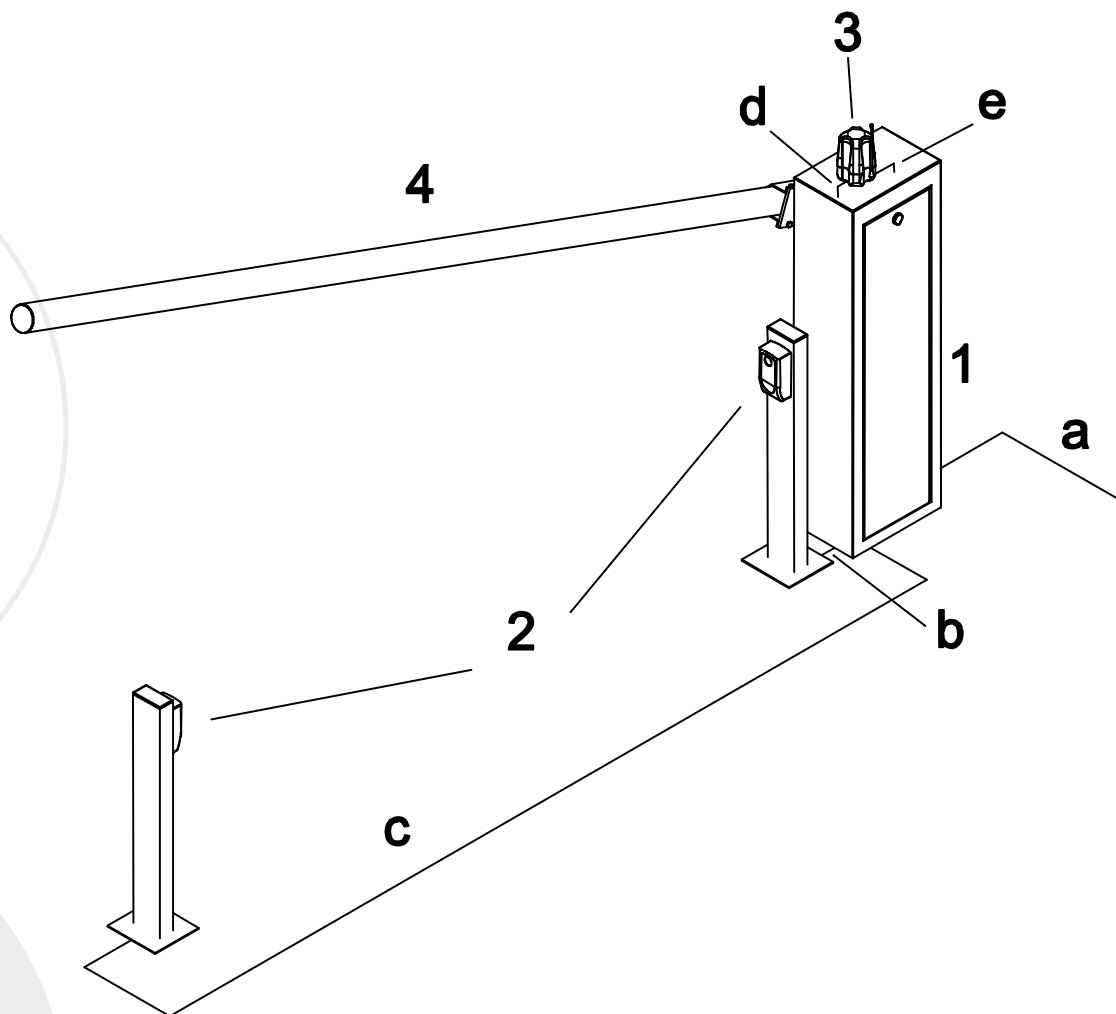
## **EXTRAORDINARY MAINTENANCE AND REPAIRS**

If a complicated repair or replacement of electromechanical parts is necessary, the unit in question (control unit, gearmotor unit) should be removed in order for the repair to be carried out by the manufacturer or by authorized technicians. Otherwise, the safety and reliability of the barrier may be reduced (such as the guarantee for example).

NOTE: if the barrier is used in a saline environment or an environment that is highly contaminated by corrosive chemical reactants, the frequency of the maintenance controls must be increased due to the increased environmental deterioration; In this case the external metal cabinet should also be inspected.



**TYPICAL SYSTEM**



- 1 - Gearmotor
- 2 - Photocells
- 3 - Flashing light
- 4 - Rod (max. length 6,25 m)

**Cable section:**

- a 3 x 1,5 mm<sup>2</sup>
- b 4 x 0,5 mm<sup>2</sup>
- c 2 x 0,5 mm<sup>2</sup>
- d 2 x 0,5 mm<sup>2</sup>
- e RG58

## DECLARATION OF CONFORMITY

(OF THE MANUFACTURER)



**Manufacturer: QUIKO ITALY SAS**

Via Seccalegno, 19  
36040 Sossano (VI)  
Italia

hereby declares, under his liability, that products:  
QK-I30B, QK-I40B, QK-I50B, QK-I60B

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

- ✓ Electro-magnetic Compatibility Directive 2014/30/UE (EN61000-6-3:2006; EN61000-6-2:2005; EN61000-6-3/A1:2013; EN61000-3-2:2014; EN61000-3-3:2013)
- ✓ Low Voltage Directive 2014/35/UE (EN60335-1:2012; EN60335-1/A11:2015; EN60335-2-103:2015)
- ✓ Machinery Directive 2006/42/CEE (EN 60204-1:2006)

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, 26/01/2017

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:

---

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 .....2006/95/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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the quality of its products without  
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