



A-175 GARAGENTOR ANTRIEB

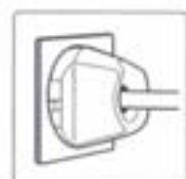
A-175 GARAGE DOOR OPENER

A-175 L'OUVRE-PORTE DE GARAGE

A-175 GARAGEPORTÖPPNARE

CE

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**A-175 S short/kurz****A-175 L long/lang**

230 V, 50/60 Hz  
60 – 220 W

230 V, 50/60 Hz  
60 – 220 W



1220 mm

1220 mm



17 kg

18 kg



24 V, 21 W

24 V, 21 W



-20° C/+60° C

-20° C/+60° C



max. 0,16 m/sec

max. 0,16 m/sec



2550 mm

3050 mm



50 – 550 N  
(5 – 55 kp)

50 – 550 N  
(5 – 55 kp)



max. 3500 mm

max. 3500 mm



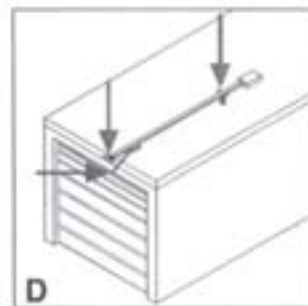
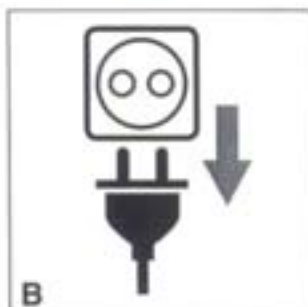
max. 2300 mm

max. 2750 mm



ca. 16.700.000  
UKW FM 40.685 MHz

16.700.000  
UKW FM 40.685 MHz



## D

- A: LESEN SIE DIESE ANLEITUNG BITTE VOLLSTÄNDIG DURCH!  
HALTEN SIE DIE BESCHRIEBENE REIHENFOLGE GENAU EIN!**
- B:** Vor allen Montage- und Wartungsarbeiten Netzstecker ziehen!
- C:** Nicht in laufendes Tor oder bewegte Teile greifen!
- D:** Diese Befestigungen sehr sorgfältig ausführen, da große Kräfte wirken!
- E:** Vor Regen, Schnee, Feuchtigkeit und brennbaren Stoffen schützen!
- F:** Kinder fernhalten!

## GB

- A: PLEASE READ THESE NOTES THROUGH COMPLETELY.  
FOLLOW THE SEQUENCE OF ASSEMBLY EXACTLY.**
- B:** Disconnect from the mains supply before undertaking any installation or maintenance work.
- C:** Do not attempt to handle or go near moving door or parts.
- D:** Because of the high forces involved all mounting attachments must be securely fastened.
- E:** Protect against rain, snow, damp and inflammable materials.
- F:** Keep children and onlookers at safe distance from door.

## F

- A: VEUILLEZ LIRE INTÉGRALEMENT LES PRÉSENTES INSTRUCTIONS!  
RESPECTER DE FAÇON PRÉCISE L'ORDRE INDIQUÉ!**
- B:** Avant de procéder aux travaux de montage et de maintenance, toujours débrancher la fiche de la prise de courant!
- C:** Ne pas toucher la porte en cours de fonctionnement ou des pièces en mouvement!
- D:** Réaliser ces fixations avec beaucoup de soin, car elles sont soumises à des contraintes élevées!
- E:** Protéger contre la pluie, la neige, l'humidité et les substances inflammables!
- F:** Maintenir les enfants à l'écart!

## S

- A: LÄS IGENOM DENNA BRUKSANVISNING NOGGRANT!  
FÖLJ ANGIVEN ORDNINGSFÖLJD EXAKT!**
- B:** Dra ut nätkontakten före alla monterings- och skötselåtgärder!
- C:** Berör ej port eller rörliga delar under gång!
- D:** Dessa fästen måste monteras mycket noggrant, eftersom de utsätts för stor belastning!
- E:** Skydda mot regn, snö, fuktighet och brännbart material!
- F:** Håll barn på avstånd från portområdet vid montering!



## I. ASSEMBLY ON THE FLOOR

### Picture A:

● Lay out all of the parts as shown on the garage floor, with the control unit (4) facing towards the inside of the garage. Make sure the required tools are to hand. Always make sure that the chain is completely clipped into the chain case.

### Picture B:

● Push the motor with its chain (1) into one of the tracks (2). Make sure that the contact springs are fitted in advance. ● Push the other two tracks (2) as far as they will go onto tracks (3) until the stop lugs resist. This produces a single, continuous track. ● Push the red switch marked "H" (10) into the track with the tip pointing towards the motor (1). ● Push the chain through the opening in the witch.

### Picture C:

● Insert the bolts (12a) into the roof bracket (12c) (refer to ill. A). Mount the angle iron (12) onto the roof bracket (12c) using the nuts (12) and locking washers. ● Push the roof bracket (12c) into the track. ● Connect the chain to the bolt on the control unit (4) by means of the chain joint (6). ● Bring the contact springs up to the control unit (4) and push the control unit (4) as far as it will go into the track (2).

### Picture D:

● Push the red switch marked "V" (11) into the other side of the track. ● Fit the chain bolt (15) to the chain by means of the chain joint (5) and push the lintel fitting (14) into the track (with the open side facing up). ● Push the chain bolt through the opening in the lintel fitting (14).

### Picture E:

● Fit the washer, the spring and the MB nut (15) to the chain bolt (15). ● Tighten the nut down as far as the mark on the lintel fitting (14). Hold in position with a screwdriver (but not inserted into the chain joint). ● Then push the chain and the chain bolt right to the side of the track.

### Picture F:

● Attach the two roof/wall angle irons (16c) using the bolt (16a) and the nut (16b) to the lintel fitting (14), but do not tighten fully yet.

### Picture G:

● If the motor (1) does not run free, disengage it by a single pull on the emergency unlocking device (17). ● Fit the door bracket (13) and the pulley arm (13) to the motor (1) as shown, using the bolt and retaining clip (13).

## II. FITTING THE DRIVE TO THE GARAGE ROOF

● Turn the hole assembled unit so that the opening in the track is facing down. Unlock the door and disconnect all of the locking devices so that they cannot interfere with the movement of the door. ● Make sure that the garage door runs smoothly over its complete travel in both directions. If required, the door should be adjusted before the assembled drive unit is fitted.

### Picture H:

● Measure the centre of the garage door and mark it on the face of the door and also on the lintel above the door. ● Open the door slowly and note where it comes closest to the roof (including the rubber strip, where fitted). This point, the highest point of the door's travel, must be at least 35 mm from the roof. Close the door.

### Picture I:

● Depending on the space available, the drive assembly can be mounted on the lintel or the roof (as close to the lintel as possible). Mark and drill holes 74 mm to the right and left of the middle of the door and 20 – 50 mm above the highest point of the door's travel (10 mm diameter holes for concrete, 5 mm diameter for wood). ● Important – take the thickness of the lintel or roof into account! Insert plugs, raise the drive assembly at the front and secure the angle irons (16c) using the wood screws and washers (16c).

### Picture J:

● Raise the drive assembly at the rear and support on a ladder. ● Open the door. The gap between the control unit (4) and the roof bracket (12c) can be adjusted to anything between 0 – 600 mm depending on the particular garage roof. Adjust the roof bracket (12c) vertically to ensure that the door does not rub against the track in its travel and adjust the assembly to the centre of the door at the same time. Mark the holes and drill (in concrete 10 mm diameter, in wood 5 mm diameter). Insert plugs and secure the roof bracket (12c) with the screws and washers (12b). ● Important – take the thickness of the lintel or roof into account! If required, the projecting ends of the angle irons can be cut off with a hacksaw.

### Picture K:

● Close the door again. Fully tighten the bolt (16a) and the nut (16b). Push the motor (1) forward towards the lintel. Hold the door bracket (13) in position on the door and centre it. The angle can be fitted to the door bracket in a variety of ways, depending on the type of door. Pre-drill 5 mm diameter holes. Secure the door bracket (13) with the four screws (13). If required, other screws than those supplied may be used to ensure the bracket is secure.

● **Assembly of machinery attachment for Crawford Private.** Assemble machinery attachment as per Picture 1. Put the upper and below parts of the machinery attachment together and lock with screws, as shown in Picture 2. The machinery attachment is always to be placed at the middle of the top section.

### Picture L:

● Install the internal wall switch (9) at a suitable point, at least **mind. 1600 mm** above the floor. Lay the three-core cable (8) and connect up the white and black wires to the control button terminals. The red wire (24 V) is used when installing a code lock or a photocell. ● Attach the antenna (7) to the ceiling at right angles to the direction of transmission.

### Picture M:

● Push switch "V" (11) right up to the motor (1) and tighten the retaining screw. Open the door fully. ● Push switch "H" (10) right up to the motor (1) and tighten the retaining screw. Connect the motor (1) by a single pull on the emergency unlocking device (17).

### Picture N:

● Plug in the main cable (6). The light must flash. (if the light fails to flash, refer to the section on "Cancelling Power Values"). To allow it to "learn" the correct power values, the drive must operate through a complete opening and closing cycle to ensure that it registers the required power for both directions of travel. The drive can be activated for this purpose by pressing the wall control button (9) or using the manual transmitter (20). The integrated light flashes during this learning procedure. The light only remains on permanently when the required power has been learned for both directions.

### Picture O:

● Prise off the cover (18) over the light using a screwdriver. ● The power tolerance can be set to a higher value on the power potentiometer (19), i.e. the power which must be applied to open or close the door in addition to the power learned by the driver. At the left-hand end of the potentiometer's travel the additional power tolerated is approximately 1.5 kg and at the right-hand end approximately 20 kg.

**WARNING!** For your own safety, the power tolerance should be kept as low as possible to ensure that any obstructions are recognized rapidly and safely.

### Picture P:

● Check that the drive can be stopped in both its open-travel and its close-travel with the application of minimum force. If interrupted in its close-travel, the drive moves back approximately 100 mm.

**N.B:** Garages with only one point of entry must be fitted with a bowden pull/disconnection lock cable for emergency unlocking (from the outside) if there is a power cut.



## PARTS SHOWN IN PICTURE A:

1. Motor and chain
2. Tracks, 3 pcs
3. Track joints, 2 pcs
4. Control unit with lamp
5. Chain, 3 part
6. Mains supply cable
7. Single-core, wall switch cable
8. Three-core, wall switch cable
9. Wall switch
10. Rear switch, marked, "H"
11. Front switch, marked, "V"
12. Roof bracket
13. Pulley arm, door bracket, bolt, retaining clip
14. Lintel fitting
15. Chain bolt, spring, washer, nut
16. Angle iron, screws, plugs
17. Emergency unlocking device
18. Lamp cover
19. Pulling force adjustment
20. Remote control

## Changing the remote control battery

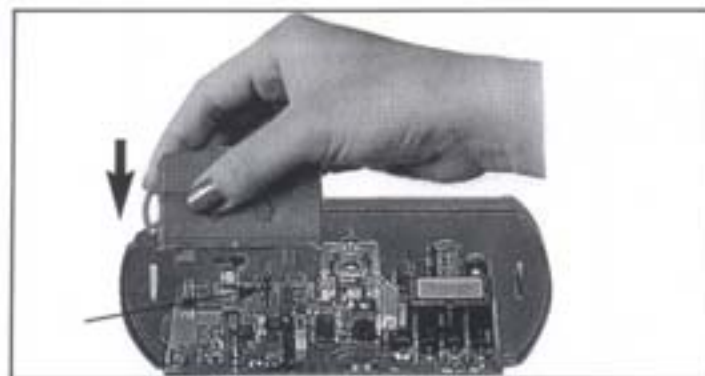
● When the battery is almost fully discharged, the control lamp will flash when the button is pressed. At this point, the battery should be replaced by a new one of the same kind. Open the remote control, remove the old battery and insert the new one in exactly the same position. Check that the poles are properly connected (+/-). Dispose of the old battery in an environmentally-acceptable manner.



## Programming a new remote control unit

● The remote control unit supplied is factory-programmed with a code selected at random from a range of 16,700,000 possible codes. It does not require programming by the customer. If you should require an additional remote control, this must be programmed with your code.

● To programme the remote control unit proceed as follows: **disconnect the mains supply** and unclip the lamp cover (18) with a screwdriver. Unscrew the two screws on the control panel. Open and pull out the circuit card. ● Open up the remote control and fit its contacts into the corresponding contacts on the circuit card. Press the button to be coded on the remote control until the control lamp on the circuit card goes out (approx. 2 – 3 secs.). Reverse the procedure to reassemble.



## Cancelling Power Values

● Once the drive has been installed and connected up to the mains supply, the integrated light flashes indicating that the drive has still not "learned" any power values. If the light fails to flash because the drive has already learned power values – e.g. in the course of tests carried out under no-load conditions – these values must first be cancelled. Proceed by prising off the cover (18) over the light using a screwdriver. Using a narrow-pointed object as a tool, hold down the code relay button (marked "Code") for approx. 3 seconds. The light begins to flash as soon as the values are cancelled. Proceed as per the instructions for illustration N to "teach" the required power values. Replace the cover over the light.

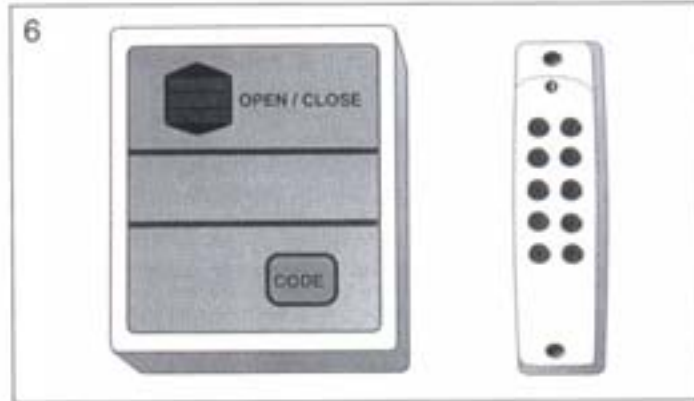
## Relaying the Code

● Relaying the code is necessary if, for example, a manual transmitter is lost. ● Proceed by prising off the cover over the light using a screwdriver. The code relay button (marked "Code") **must be held down** until the red LED (marked "Radio Control") remains lit and the light goes out (approx. 8 seconds). Holding down the button for a shorter time cancels the power values already learned. ● The remote control unit must now be re-encoded as indicated under "Encoding a New Remote Control Unit".



## Dealing with Obstructions

● If the door encounters an obstruction when it is closing, the drive reverses approx. 10 cm and then stops in this position. For reasons of safety, the next starting signal causes the door to move only in the "Open" direction, until the upper end-point in its travel has been reached. At this point, both directions of travel are enabled again. The same applies in the opposite direction for any obstruction encountered during opening. If the door should come up against an obstruction in both directions, for reasons of safety the drive mechanism switches over to dead-man operating mode, i.e. the light flashes and the drive only operates for as long as the wall-mounted control button is held down. Once the obstruction has been cleared, the door can be brought to one of the end-points of its travel in dead-man operating mode. At this point the drive returns to its normal operating mode.



## D

### Sonderzubehör

1. Fernbedienung, 1-Befehl/2-Befehl Mini/5-Befehl
2. Funkempfänger, 40 MHz, 1-Befehl, für Sonderanwendungen
3. Funkempfänger, 40 MHz, 4-Befehl, für Sonderanwendungen
4. Entriegelungsschloß zur manuellen Entriegelung von Sektional- und Flügelstoren
5. Schlüsseltaster 1-Kontakt mit Zylinder und 7 m Kabel für Auf- oder Unterputzmontage
6. Code-Schloß, **Ab Herbst -97 bestellbar.**

Für jedes Sonderzubehör erhalten Sie jeweils eine ausführliche Montage- und Bedienungsanleitung.

## GB

### Special accessories

1. Remote control unit, single-channel/two-channel Mini/five-channel
2. Radio receiver, 40 MHz, single-channel, for special purposes
3. Radio receiver, 40 MHz, four-channel, for special purposes
4. Disconnection lock for manual disconnection of sectional doors and hinged, double doors
5. Key switch, single-contact with cylinder and 7 m cable for flush or non-flush mounting
6. Code lock, **Can be ordered from Autumn -97.**

All special accessories are accompanied by comprehensive instructions for fitting and operating.

## F

### Accessoires spéciaux

1. Émetteur monocanal/2 canaux Mini/5 canaux
2. Récepteur radio, 40 MHz, 1 canal, pour applications spéciales
3. Récepteur radio, 40 MHz, 4 canaux, pour applications spéciales
4. Mécanisme pour le déverrouillage manuel des portes sectionnelles et à deux battants
5. Commutateur à clé à 1 contact avec barillet et 7 m de câble, pour montage apparent ou encastré
6. Digicode, **Disponible à l'automne 97.**

Chaque accessoire spécial est accompagné d'instructions de montage et d'utilisation détaillées.

## S

### Extra tillbehör

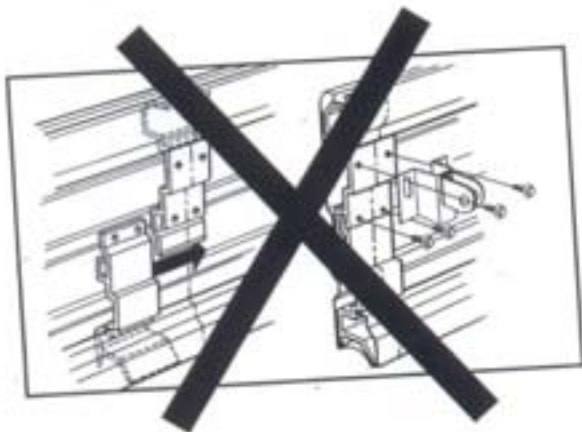
1. Fjärrkontroll, 1-kanals/2-kanals Mini/5-kanals
2. Radiomottagare, 40 MHz, 1-kanal, för specialområden
3. Radiomottagare, 40 MHz, 4-kanal, för specialområden
4. Frikopplingslås för manuell frikoppling av sektions- och slagportar
5. Nyckelströmbrytare, 1-kontakt, med cylinder och 7 m kabel, för utåtpåliggande alternativt infälld montage.
6. Kodlås, **Kan beställas från hösten -97.**

Med varje extra tillbehör följer en utförlig monterings- och bruksanvisning.

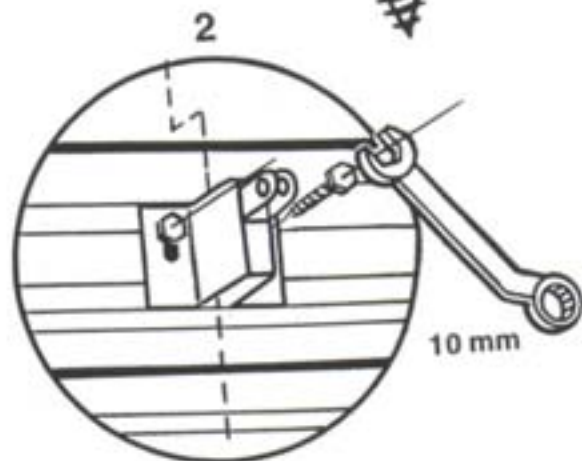
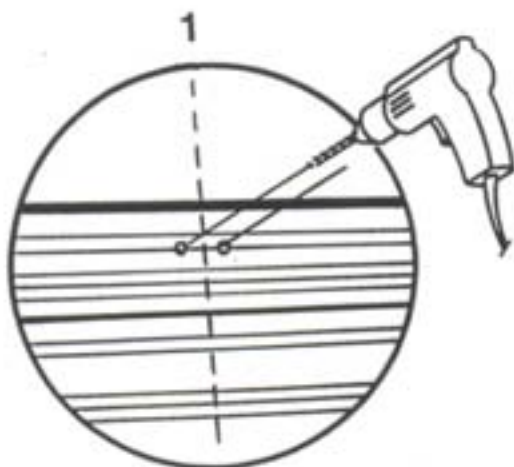
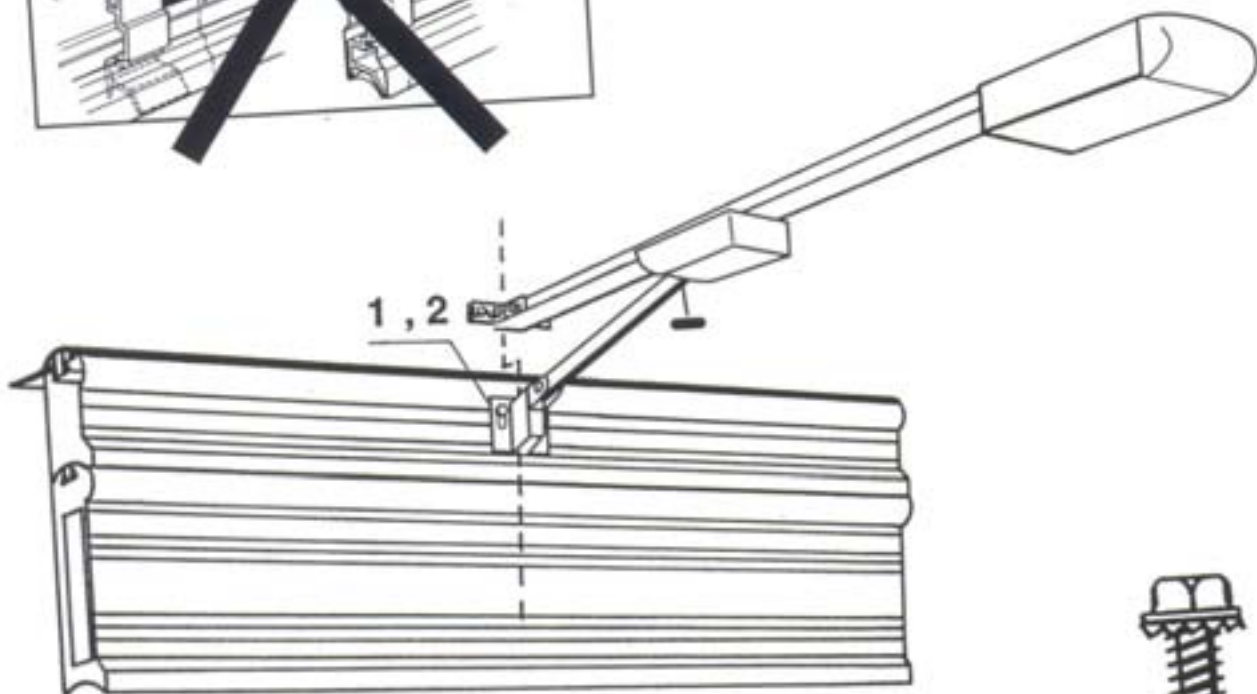
Ser.-Nr.:



DH = 1925, 2250, 2575 mm



4,5 mm



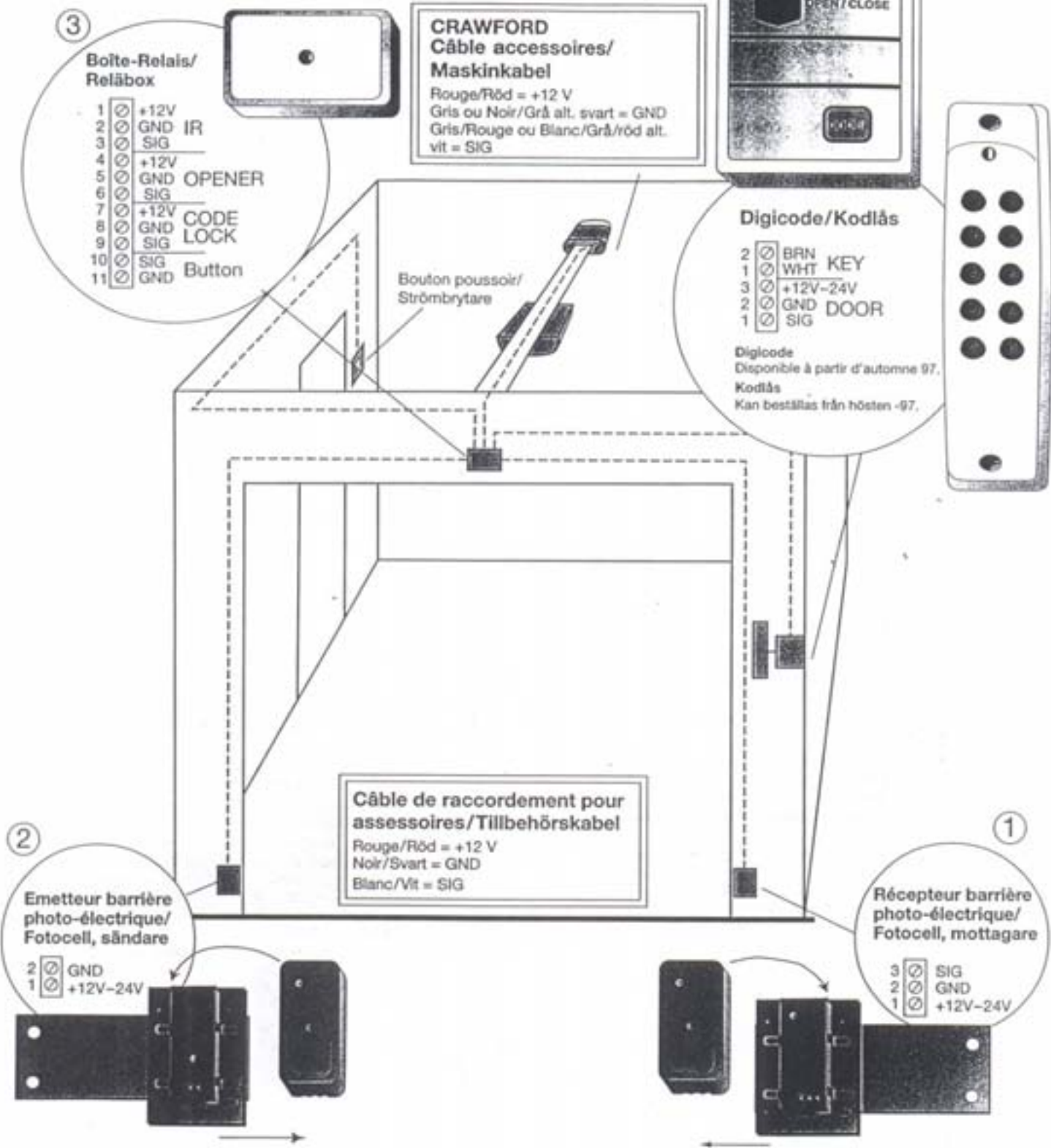
10 mm

97-48 K023044







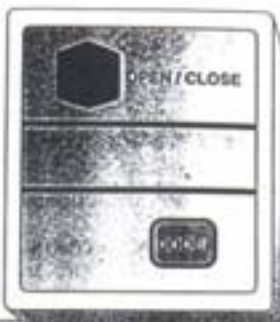


3

**Boîte-Relais/  
Reläbox**

- 1 ⊗ +12V
- 2 ⊗ GND IR
- 3 ⊗ SIG
- 4 ⊗ +12V
- 5 ⊗ GND OPENER
- 6 ⊗ SIG
- 7 ⊗ +12V
- 8 ⊗ GND CODE LOCK
- 9 ⊗ SIG
- 10 ⊗ SIG
- 11 ⊗ GND Button

**CRAWFORD  
Câble accessoires/  
Maskinkabel**  
Rouge/Röd = +12 V  
Gris ou Noir/Grå alt. svart = GND  
Gris/Rouge ou Blanc/Grå/röd alt. vit = SIG



**Digicode/Kodlås**

- 2 ⊗ BRN KEY
- 1 ⊗ WHT KEY
- 3 ⊗ +12V-24V
- 2 ⊗ GND DOOR
- 1 ⊗ SIG

Digicode  
Disponibile à partir d'automne 97.  
Kodlås  
Kan beställas från hösten -97.

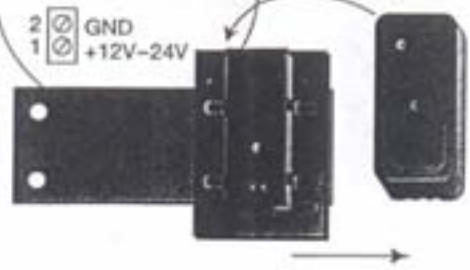


**Câble de raccordement pour  
accessoires/Tillbehörskabel**  
Rouge/Röd = +12 V  
Noir/Svart = GND  
Blanc/Vit = SIG

2

**Emetteur barrière  
photo-électrique/  
Fotocell, sändare**

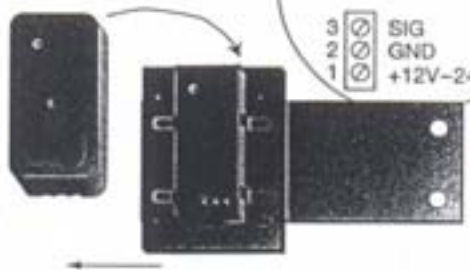
- 2 ⊗ GND
- 1 ⊗ +12V-24V



1

**Récepteur barrière  
photo-électrique/  
Fotocell, mottagare**

- 3 ⊗ SIG
- 2 ⊗ GND
- 1 ⊗ +12V-24V



**Caractéristiques techniques barrière photo-électrique**

Portée: 10 mètres nominal. La poussière ou une mauvaise orientation peuvent diminuer la portée.

Tension d'alimentation: 12 V-24 V c.a./c.c.

Température ambiante: -20°C +60°C

Consommation de courant: env. 30 mA

Indice de protection: IP 34

Dimension du boîtier: 55 x 73 x 25 mm

C.E.M., EN 55081-1 et EN 55082-1, testé CE.

**Tekniska data, fotocell**

Räckvidd: 10 m nominellt. Genom damm eller dålig mottagning kan räckvidden försämrans.

Strömförsörjning: 12 V-24 V AC/DC

Omgivningstemperatur: -20°C +60°C

Strömförbrukning: ca. 30 mA

Skyddsklass: IP 34

Kåpens mått: 55 x 73 x 25 mm

EMC, för EN 55081-1 and EN 55082-1, CE-godkänd.



