Sc1 COMMERCIAL ROLLER SHUTTER DOOR

Date of installation
Installation company
Installation engineer
Contact
Telephone
Fax
Email
Mobile
Unique door reference (CE N°)

OWNERS MANUAL

Safety considerations during operation

The operation of this door must be carried out by trained persons only.

When operating this roller shutter door the following must be adhered to;

- Read the instruction manual before operating.
- Ensure there are no people or objects in the vicinity.
- Stand well clear of the moving door.
- Watch the shutter closing at all times
- Remove any locking devices before operating.
- If the shutter becomes stuck in any position do not attempt to free, control the area and call and engineer.

Controls

Remote control (c/w safety devices)

- Ensure the door is fully closed and remains closed before moving away.
- Keep the photocells clean and free from dust.
- Keep the safety edge clean and check for damage.

Remote control (no safety devices)

- Only fully trained operators must use the shutter
- Keep the shutter in view at all times, do not look away whilst in motion.
- Ensure there are no persons close to the door and keep all hands away from moving parts.
- Place the transmitter in a safe place when not in use.
- Do not put the transmitter in your pocket.
- Do not allow access to the transmitter by untrained persons.
- Keep the button cover closed when not in use.

Key switch

- Check the switch for any damage before inserting the key.
- Keep well clear of the shutter whilst operating.
- Ensure there are no persons or objects in the vicinity.
- Watch the shutter at all times during operation.
- If the shutter becomes stuck turn the key immediately to stop, do not try to pull or push the shutter, call out an engineer.

Rocker switch

- Check the switch for any damage before operating.
- Keep well clear of the shutter whilst operating.
- Ensure there are no persons or objects in the vicinity.
- Watch the shutter at all times during operation.
- If the shutter becomes stuck release the button immediately, do not try to pull or push the shutter, call out an engineer.

CUSTOMER MAITENANCE INSTRUCTIONS

CLEANING METHODS

Exposed door sections

All our exposed door sections are manufactured from mild or galvanised steel and require very little or no specialised cleaning under normal operating conditions.
Any build up of dust or grime should be removed with soap and water.

Powder coated sections

These coloured finishes may lighten over time but require no other treatment than that of standard galvanised finishes.

Motor units and barrel assemblies

Motor units and barrels are generally at high level and may be concealed, they require no cleaning between planned maintenance schedules.

Cleaning material and solvents

Heavy industrial cleaners such as pain thinners, formaldehyde, petrol, diesel, sodium bicarbonate or “GUNK” as well as shot blasting or oxidising agents **should not be used.** White spirits may be used to remove graffiti but should be thoroughly rinsed using soap and water.

Lubrication

Grease and oils should **not** be used inside the guide sections, this will become contaminated with dirt quickly and hinder the operation of the door as well as causing increased wear and tear on the endlocks.

COMPETENT ENGINEER MAITENANCE INSTRUCTIONS

Under the Workplace (Health, Safety and Welfare) Regulations 1992, anyone in control of a workplace is required to ensure that doors are safe and that they should be fitted with a device to prevent them falling back (see regulation 18) and are maintained in a safe condition (see regulation 5).

Section 3 of the Health and Safety at Work Act 1974 requires that, where the door forms part of an undertaking, it should be maintained in a safe condition for users. This could apply to landlords, managing agents or anyone else with a professional duty of care to others.

The Health and Safety at Work Act 1974 requires that any works done by a repairer or maintainer (this includes maintenance) will result in a safe outcome.

Where access to safety critical elements of a door due to boxing in or lack of safe access to areas above ceilings cannot be achieved, the safety of the door cannot be assured and hence cannot be known if the door is safe to use or not. The head-gear of a door often contains many of the safety critical elements.
The most frequent cause of failure, injury and death has involved some problems with the head of the door.
Repairing or servicing the door could be in breach of health and safety law and, in the event of an incident, the owner and the maintainer could both face criminal proceedings. There is also the possibility of civil proceedings for negligence affecting either party.

NOTE.
All parts of the shutter must be accessible before you can fully service it. This may require the removal of facias, signage or ceilings.

If the door is in a dangerous condition you must advise the user, issue and unsafe notice and isolate it.

This door should be serviced at least every 12 months by a competent engineer.

It is essential that the door operation remains functioning in accordance with the instructions. To ensure this happens a documented maintenance regime should be established and maintained by the owner in accordance with the "workplace (Health, Safety and Welfare) Regulation 5 1992.
Failure to do so may result in failure and possible injury.

Service frequency

Note: Failure to keep the door regularly maintained could invalidate your warranty. The following recommendations are for the service and maintenance to ensure the door remains safe and in full working order throughout its operating life. The frequency depends on its use.

Door cycles per day (1 cycle = up & down)	Recommended service period
<15	12 months
15-30	6 months
30-45	4 months
Over 45	3 months

Service and maintenance instructions
Inspection by owner
Recommendations on a daily basis

1 check for any bent or damaged parts of the door.
2 excessive force is not required to operate the door.
3 The door operation complies with all safety requirements.
4 Any damage or excess force required to operate the door should be reported Immediately, failure do so could result in failure and/or serious injury.
5 If safety is compromised do not use. Isolate the door and call for technical assistance.

WARNING

It is extremely dangerous for any untrained personnel to attempt any work other than those listed above, all repairs and servicing should be carried out by a trained and experienced specialist engineer.

General safety

The following instructions should be adhered to at all times, failure to do so could result in injury.

Keep openings clear at all times

Do not operate a damaged or difficult to operate door, in the event that the door is found damaged or difficult to operate, lock the door, remove the key and leave a highly visible warning notice, ensure a qualified person inspects the door as soon as possible.

Do not lean ladders against the door

Stand well clear of the door whilst the door is being operated.

Operate the door only by the means provided. Never attempt to open a failed door using lifting equipment.

Do not remove the coil casing or head gear unless the door is stopped, locked and the power has been isolated.

Do not use the door to lift materials or persons.

Do not dash through a closing door. Wait for it to close and then open again.

Service by a specialist engineer

A specialist service engineer, in accordance with the recommended service frequencies, should carry out service and maintenance operations; service work instructions and check sheets.

WARRANTY

All parts are covered by a twelve month manufacturers guarantee subject to our terms and conditions (available on request). The warranty may be extended subject to a service schedule. Proof of service may be required to substantiate warranty claims,

RCS require evidence of all service and repair work in writing within seven days of the works being carried out, failure to notify us in writing may result in the warranty becoming void.

DOOR CURTAIN	
	Check general condition of curtain
	Check curtain is securely fastened to barrel
	Check curtain is securely fastened to bottom rail
	Check bottom rail for damage or wear
	Ensure there are no missing or damaged end locks
	Check the bottom rail for damage
SUPPORT FRAME	
	Ensure the flags are securely fastened back to the wall
	Check for damage to any part of the flags
	Check and clear any debris inside the guide and spray silicone only—do not grease
	Ensure endplates are securely fastened
	Check for damage to photocells if fitted
BARREL	
	Check the motor is securely fastened to the barrel and the end plates
	Check the catcher brackets are securely fastened the barrel
	Check the dummy end is in the cups or the brake is working correctly and secure
	Check the curtain fastening are secure and tighten as necessary
	Check and tighten grub screws on brake shaft
	Inspect weld at shafts
	Check keys are secure on shafts with brakes
MOTOR	
	Check control panel is securely fastened
	Inspect all cables for damage
	Inspect the safety edge for damage and wear, pay close attention to the cable (if fitted)
	Inspect the photocells for damage and ensure they line up correctly

PART REPLACEMENT				
Date	Part replaced	Reason original part failed	Action to prevent further failure	engineer

DESCRIPTION OF WORKS		
DATE	ENGINEER	COMPANY

DESCRIPTION OF WORKS		
DATE	ENGINEER	COMPANY

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DATE	ENGINEER	COMPANY

DESCRIPTION OF WORKS		
DATE	ENGINEER	COMPANY

All repairs, maintenance and servicing must be carried out by a qualified competent engineer only

DECLARATION OF PERFORMANCE

1	Identification code	Sc1 COMMERCIAL TUBE MOTOR ROLLER SHUTTER
2	Type	COMMERCIAL
3	Intended use	For giving safe access for persons, goods and vehicles in industrial, commercial or domestic premises
4	Manufacturer	RCS Ltd, The Hangar, Wood Top, Bury Rd Rawtenstall, Lancashire, BB4 6DJ
5	Authorised Repre-sentative	Steven Kenny
6	Tested By	Internal, Exova pending
7	Declared Performance	

Water tightness	NPD	EN12425
Dangerous Substances	NONE	N/A
Resistance to wind	PASS	BS EN 12444:2001
Thermal Transmittance	NPD	BS EN 12428:2000
Air permeability	NPD	BS EN 12427:2000
Safe opening	PASS	BS EN 12604:2000
Definition of geometry of glass	NPD	N/A
Mechanical resistance and stability	PASS	BS EN 12604:2000
Operating forces	PASS	BS EN 12604:2000
Durability of water tightness, thermal resistance and air permeability	NPD	NPD

BS EN 13241-1

The performance of the product identified in points 1 & 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4

DECLARATION OF CONFORMITY

Sc1 COMMERCIAL ROLLER SHUTTER

DECLARATION:
The equipment supplied by RCS Ltd. meets the requirements of European Regulations EN13241-1/EN12453/EN12978
Modifications to the product without prior approval from the undersigned will render this declaration null and void.
I, the undersigned, hereby declare that the equipment specified above and any accessory included with it conforms to the above Directives and Standards

NAME STEVEN KENNY

POSITION MANGING DIRECTOR

MODEL	Smart UPS 1200VA	Smart UPS 2000VA	3000VA
	Eurodrive 120	Eurodrive150—230	Eurodrive 500
Power (VA) Max	1200	2000	3000
Power (Watts)	720	1200	2400
INPUT			
Input voltage	220V +/- 10%		
Input voltage range	165-275v	165-280v	110-300v
Input frequency	50Hz +/-10%	45-65Hz	45-55Hz—54-66Hz
OUTPUT			
Output voltage	220v +/- 10%		
Output wave form	Sine wave (AC Mode) square wave (inverter)	Pure sine wave	Pure sine wave
Output frequency	50Hz +/- 1% (battery mode)	50/60Hz +/- 1% (auto detection)	+/-1% (battery mode)
Output transfer time	<=6ms	Normal =5ms – max = 8ms	0ms
PROTECTION			
Overload (AC Mode)		110% bypass 60 sec. 120% bypass 30 sec.	Overload, battery discharge and over-charge protection
Overload (Inv Mode)		110% shut down 60sec.120% shut-down 5 sec.	
Energy rating	320 joules instantaneous response		
Test standard	IEEE 587 Cat. A B		
LAN	Surge protection RJ45	Surge protection RJ45	
BATTERY			
Type	Sealed lead-acid maintenance free	Sealed lead-acid maintenance free	
Battery quantity	12V7AH x 2	12V8AH x 3	12V7AH x 8
Battery charge time	90% after 8 hours		90% AFTER 6 HOURS
FEATURES			
	AVR, DC cold start, audible alarm, CPU control, generator compatible,	AVR, Self diagnosis, audible alarm, overload bypass	AC Mode, battery mode, load level, battery level ,off mode charging, auto reset, LCD Display
UK mains socket	3	2	4 x 10A + 1 x 16A
DIMENSIONS			
W X H X D	125 x 230 x 338	144 x 215 x 430	192 x 460 x 347
Weight	10.7kg	17.8kg	51kg
Temperature	0-40°c	0-40°c	0-40°c
Humidity	20-90% (non condensing)	0-90% RH	0-90% (non condensing)
NOISE	<45db (1 metre)	<50db (1 metre)	
Colour	Black	black	black

*UPS FDI Panel	Connect either a volt free or a 230V DC fire signal to the unit, upon a signal from the alarm the unit will drive the door down
*EMC-3C Panel	Can be used with tube motor and inline motor, audible and visual warning, 1 or 2 stage closing, IP65 enclosure
Slave panel	An audible and visual warning to fit along side an EMC-3C panel

One of the above panels is required to operate a tube motor roller shutter

Battery back ups and fire interface panels are required with all commercial fire shutters to ensure the door closes in the event of a fire, including electrical fires. A very basic option for commercial shutters is to affix a fusible link to a UPS FDi Panel that will close the door once the fusible link has separated, this option still requires a power supply to drive the door down.

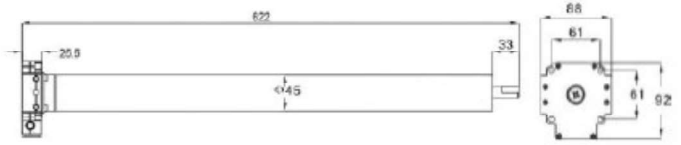
MANUAL OVERRIDE TUBULAR MOTORS

WHERE APPLICABLE, ALL TUBULAR MOTORS ARE SUPPLIED WITH MOUNTING BRACKET, TUBE ADAPTORS AND OVERRIDE EYE.

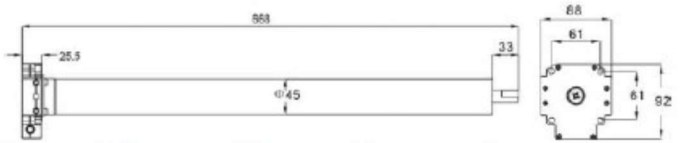
60nm Manual Override

Tube Adaptors Available - See Page 8

Technical Specification	Override	Torque	Amps	Watts	RPM	Limit Capacity
EURO60M/O	Y	60Nm	1.4	310W	12	12
Lifting Capacity	**60mm Ø**	**70mm Ø**	**90mm Ø**	**101mm Ø**		
(Correct Up To 3m High)	130Kg	110Kg	100Kg	90Kg		



60nm Manual Override
Single Phase Tubular Motor
Through-Drive Override System



60nm Manual Override
Single Phase Tubular Motor
Through-Drive Override System

TO SUIT CONTINENTAL SHUTTER SYSTEMS

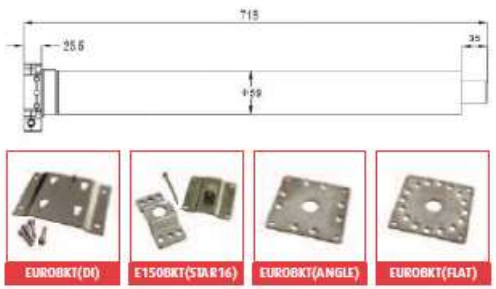
MANUAL OVERRIDE TUBULAR MOTORS

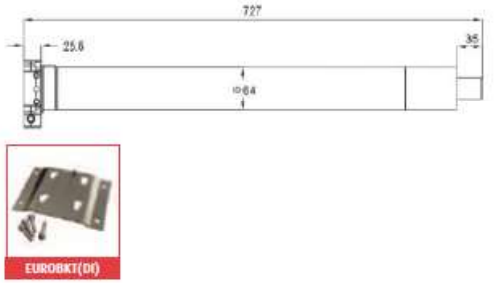
120nm, 150nm & 180nm Manual Override

Tube Adaptors Available - See Page 8

Technical Specification	Override	Torque	Amps	Watts	RPM	Limit Capacity
EURO120M/O	Y	120Nm	2.0	450w	12	24
EURO150M/O	Y	150Nm	2.2	480w	9	24
EURO180M/O	Y	180Nm	2.4	520w	9	38

Lifting Capacity	70mm Ø	90mm Ø	101mm Ø	127mm Ø
(Correct Up To 3m High)	210Kg	200Kg	180Kg	-
	320Kg	250Kg	225Kg	-
	-	-	265Kg	205Kg





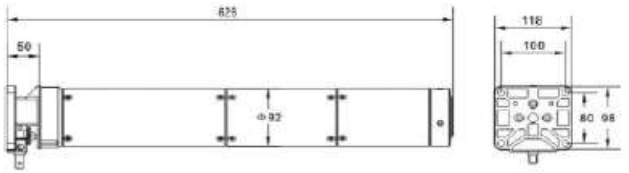
MANUAL OVERRIDE TUBULAR MOTORS

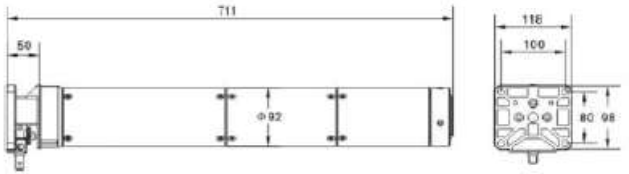
240nm, 360nm & 500nm Manual Override

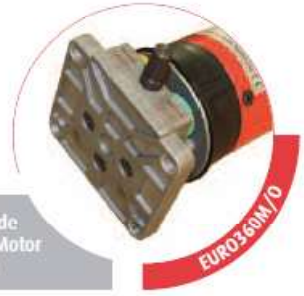
Tube Adaptors Available - See Page 8

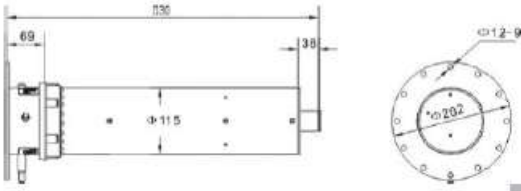
Technical Specification	Override	Torque	Amps	Watts	RPM	Limit Capacity
EURO240M/O	Y	240Nm	3.8	830w	12	12
EURO360M/O	Y	360Nm	4.8	980w	8	12
EURO500M/O	Y	500Nm	7.2	1350w	7	28

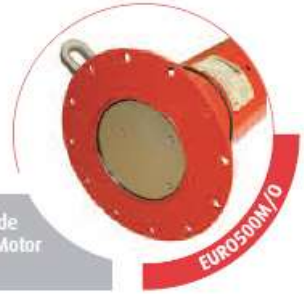
Lifting Capacity	101mm Ø	127mm Ø	140mm Ø	168mm Ø
(Correct Up To 3m High)	375Kg	295Kg	270Kg	-
	500Kg	395Kg	340Kg	-
	-	500kg	450Kg	375Kg

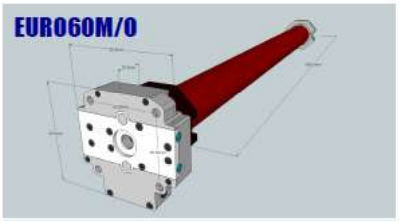


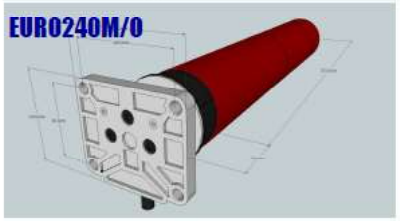


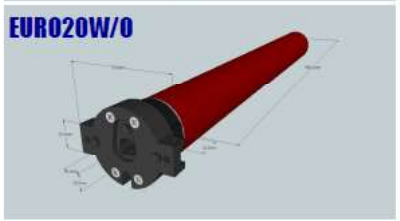




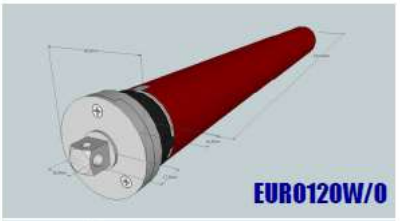


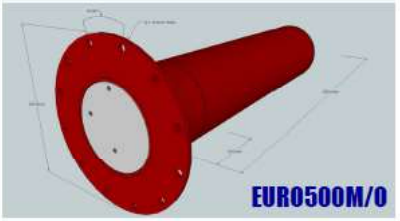


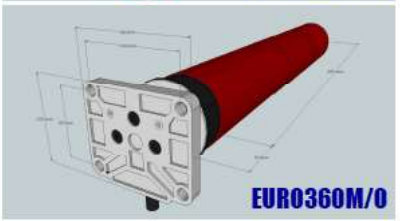




	Technical Specification					
	Override	Torque	Amps	Watts	RPM	Limit Capacity
EURO12W/O	N	12Nm	0.7	168w	17	20
EURO20W/O	N	20Nm	0.8	178w	17	20
EURO60W/O	N	40Nm	1.2	276w	12	20
EURO60W/O	N	60Nm	1.4	310w	12	20
EURO60M/O	Y	60Nm	1.4	310w	12	11
EURO120W/O	N	120Nm	2.0	450w	12	34
EURO120M/O	Y	120Nm	2.0	450w	12	22
EURO150W/O	N	150Nm	2.2	480w	9	34
EURO150M/O	Y	150Nm	2.2	480w	9	22
EURO240M/O	Y	240Nm	3.7	850w	12	12
EURO360M/O	Y	360Nm	4.8	980w	8	12
EURO500M/O	Y	500Nm	7.2	1350w	7	28

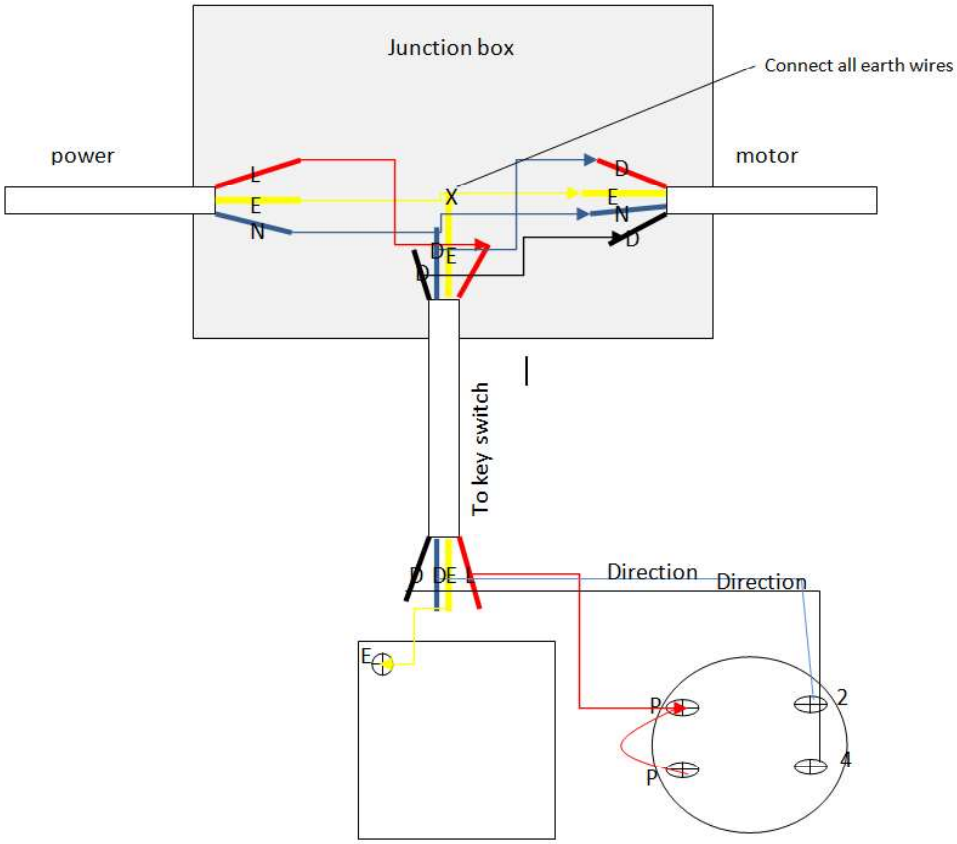


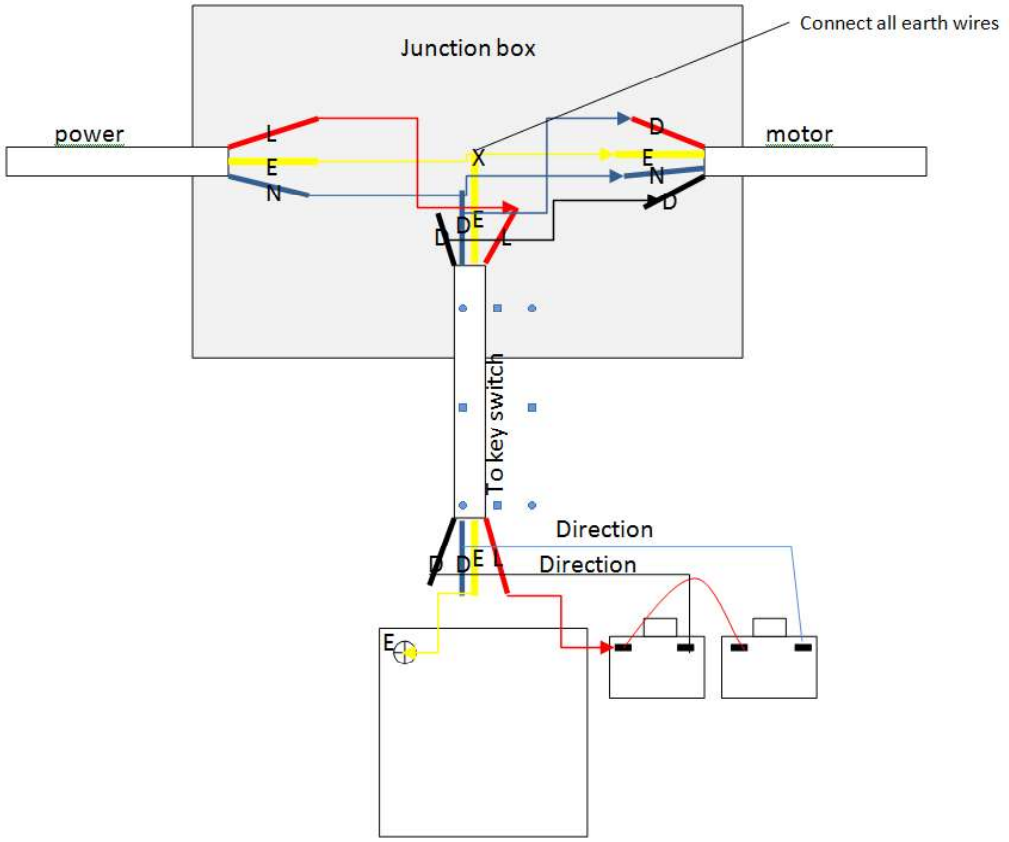




	Lifting Capacity (correct up to 3m high)								
	Barrel Diameter								
	40mm	50mm	60mm	70mm	90mm	101mm	127mm	140mm	168mm
EURO12	40kg	30Kg	-	-	-	-	-	-	-
EURO20	-	-	50Kg	40Kg	35Kg	30Kg	-	-	-
EURO40	-	-	90Kg	75Kg	65Kg	60Kg	-	-	-
EURO60	-	-	130Kg	110Kg	100Kg	90Kg	-	-	-
EURO120	-	-	-	210Kg	200Kg	180Kg	-	-	-
EURO150	-	-	-	320Kg	250Kg	225Kg	-	-	-
EURO240	-	-	-	-	-	375Kg	295Kg	270Kg	-
EURO360	-	-	-	-	-	500Kg	395Kg	340Kg	-
EURO500	-	-	-	-	-	-	500Kg	450Kg	375Kg

	Technical Specification					
	Cylinder Type	Amps	Mounting Style	Operation	Poles	To suit tube motor up to
KEY-16	Random	16	Surface	Deadman	Single	EURO360M/O
KEY-16-IC	Identical	16	Surface	Deadman	Single	EURO360M/O
KEY-16-FLUSH	Random	16	Flush	Deadman	Single	EURO360M/O
KEY-16-FLUSH-IC	Identical	16	Flush	Deadman	Single	EURO360M/O
KEY-32	Random	32	Surface	Deadman	Single	EURO500M/O
KEY-32-IC	Identical	32	Surface	Deadman	Single	EURO500M/O
KEY-DP	Random	16	Surface	Deadman	Double	EURO360M/O
KEY-DP-IC	Identical	16	Surface	Deadman	Double	EURO360M/O





EUROKIT

Tube Motor Radio Control Unit

FEATURES

- New modern enclosure box
- Euroreceiver radio remote control unit operating on 433Mhz
- Complete with 2 x EUROFOB pre-programmed transmitters
- Easy and secure mounting c/w with fixing screws
- Panel mounted membrane up, down & stop pushbuttons
- Spacious cable area c/w removable terminals
- Fitted with a 1.5m pre-wired power cable and a UK moulded plug
- 24v DC output and stop circuit for photocell
- Low voltage inputs for keyswitches, rocker switches etc
- Impulse open/close or impulse open/ deadman close options
- Suitable for use with all 230v/50Hz tube motors
- CE compliant

EURODRIVE CONTROLS CE

Installation Instructions

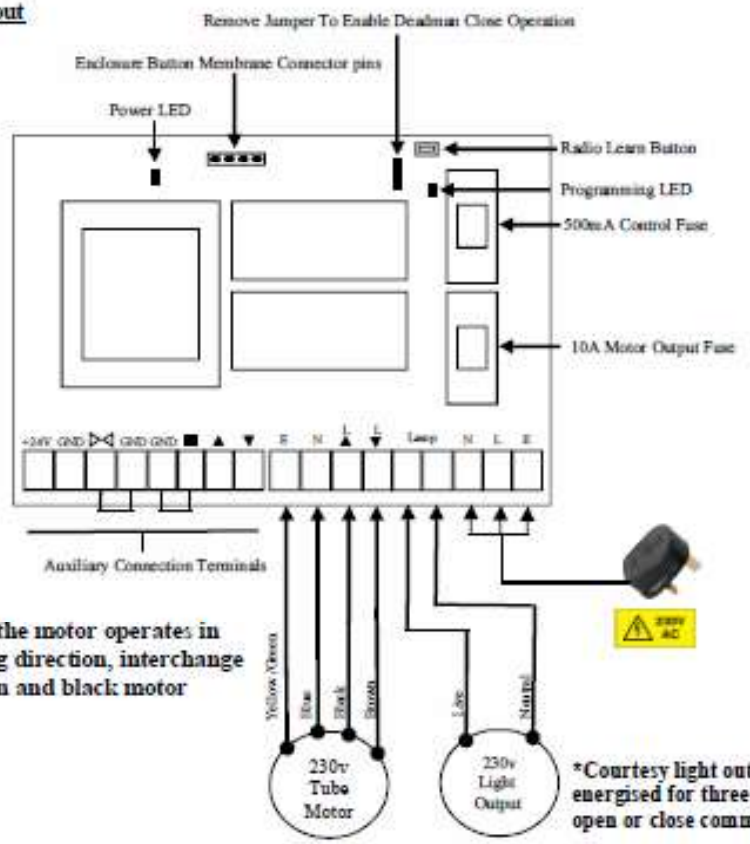
Installing The Enclosure

1. Carefully remove the cover by sliding it upwards from the enclosure and disconnect the membrane button ribbon from the internal PCB.
2. Drill a 5mm hole in the wall, approximately central to where the enclosure will be installed.
3. Using the supplied fixings, insert one of the 6mm wall plugs and insert one of the screws, leaving approximately 10mm of screw head and thread present.
4. Slide the rear of the enclosure over the fitted screw and mark out on the wall the location of the remaining two lugs on the bottom of the enclosure.
5. Drill 5mm holes and insert wall plugs.
6. Slide the rear of the enclosure over the top screw and secure the bottom lugs of the enclosure to the wall.
7. Make all necessary motor/control connections as shown.
8. Slide the membrane ribbon connector back over the four pins located on the PCB (note - the connector will only slide on one way. Do not try to force the connector on).
9. Slide the enclosure cover back on to the unit.

Transmitter Programming Procedure

1. Press the 'Radio Learn' button on the Euroreceiver for one second.
2. Programming LED on the Euroreceiver turns red.
3. Press any button on the transmitter TWICE.
4. Programming LED flashes quickly to indicate successful programming.
5. Programming LED goes out.
6. Repeat procedure for further transmitters (maximum 30 handsets allowed).
7. To erase ALL transmitters, continuously hold the 'Radio Learn' button for eight seconds. Individual transmitters cannot be erased.

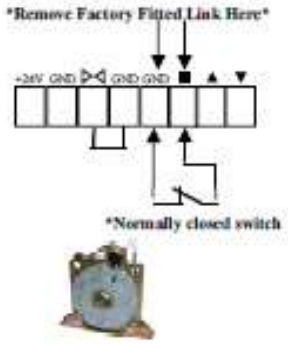
PCB Layout



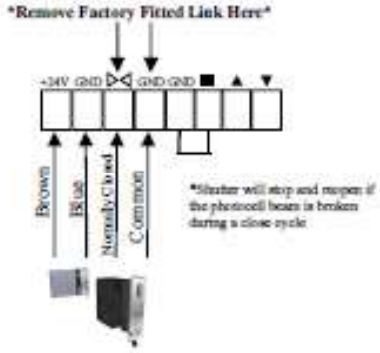
Note : If the motor operates in the wrong direction, interchange the brown and black motor wires

*Courtesy light output remains energised for three minutes after an open or close command

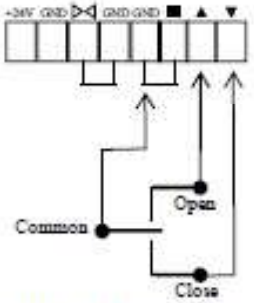
Auxiliary Connections



Connection to safety brake interlock switch



Connections to reflective photocell



Connections to keyswitch

EUROFITTER

Low Voltage Fitters Aid

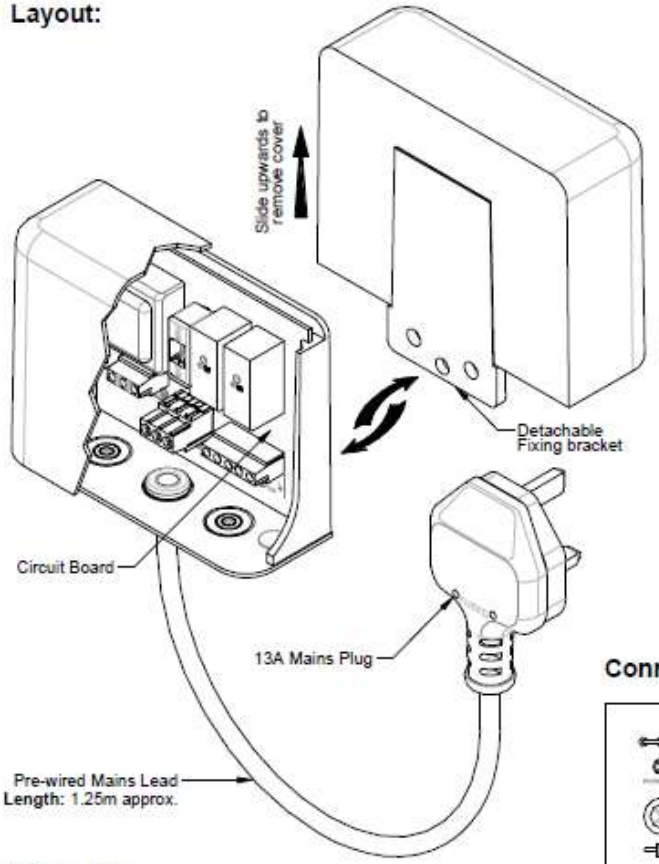
CE

Made in Italy

FEATURES

- Low voltage 24v Keyswitch / Rocker Switch control
- Easy to use and install
- Simple wiring solution for roller shutter installations
- CE Compliant
- Open/Close terminals (eg for keyswitch, rocker switch etc)
- Stop Circuit terminals (eg for safety brakes etc)
- Suitable for **EURODRIVE** tube motors up to EURO330M/O
- Complete with pre-wired 1.25m flex and UK Plug
- Power ON indicator L.E.D.
- IP44

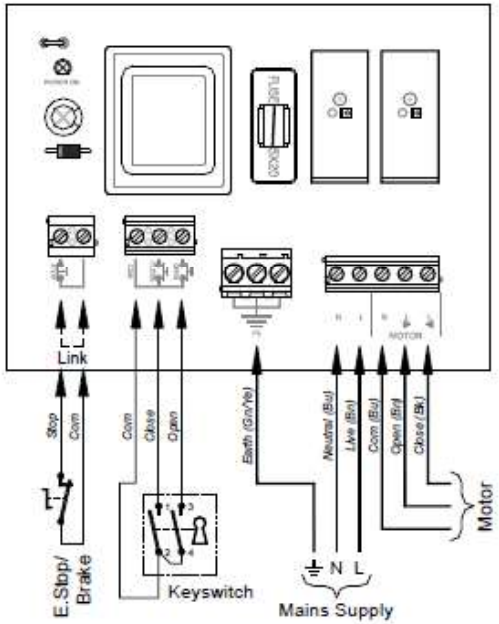
Layout:



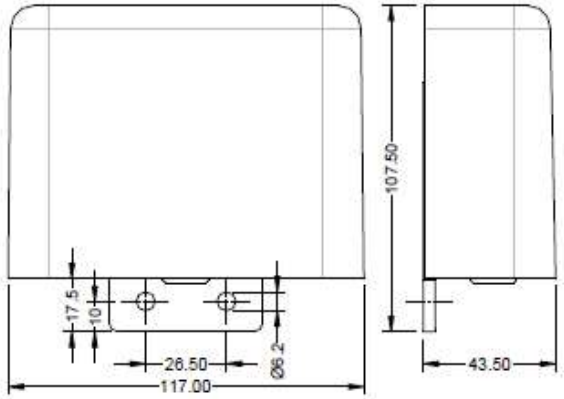
Technical Details:

Power Supply	230VAC ±10%/50Hz
Fuse Protection	6.3A
Control Voltage	24V
I.P. Rating	44

Connection Details:



Dimensions:



Easy 4D - 433Mhz Remote System

Our New Easy-4 system is a huge leap Forward in Functionality and Aesthetics

The new Easy 4 Control system has been introduced to replace the Pegasus system and provides the same benefits of this system with some surprising additional features.

The system is designed to operate with our 1 phase tubular motor range, but is also able to be modified to operate with our industrial range of 1ph and 3ph Motors (please note the unit will require a separate 230v supply).

The range of accessories available include, wireless safety edge interface, wireless keypad activation, proximity reader activation and wall mounted wireless switches.

We are also able to offer you a unique customer code which will 'lockdown' your installation and protect your work from your competitors. Please contact our Sales Department for further information.

Stock Code: 28A059

Wireless Keypad
Code: 10L009

Push Button Lid
Code:171224/26

Phoenix 4 Fob
Code: 10U002

4 Channel
Wireless Switch
Code: 10K004

Wireless Card
Reader
Code: 15G001

Power supply	V / Hz	230 - 50
Maximum motor load	W	1100
Working temperature	°C	-20 ÷ +60
Dimensions	mm	170 x 185 x 70
Protection degree	IP	55

Key Features

433.92 MHZ with the facility to store 18 rolling code transmitters

Deadman Operation with the option for Impulse both ways.

Supplied with 2 no 4 Channel Transmitters

Photocell Input

Pneumatic safety edge input (optical coming soon)

Wireless Resistive edge input with the addition of the 'WES Easy' module

Adjustable auto time return

230v output for courtesy light / flashing light

Available with a lid mounted push button for direct control.

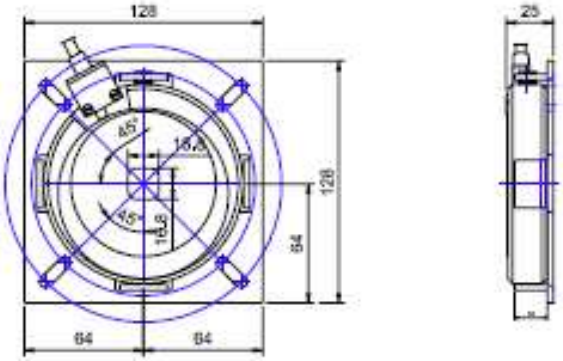
ELLARD LTD, Dallimore Road, Roundthorn industrial Estate, Wythenshawe, Manchester, M23 9NX **Tel: 0161 945 4561 Fax: 0161 945 4566**

Wiring details for easy 4 remote with safety edge s/r and photocell

In case of extending of wiring use 8core alarm wire making sure you twist pairs in the following order;
From photocell and safety edge to jct box with pre made wires
From jct box to easy 4 if extensions are required
Cable 1
Blue/white – blue/white =L8
Brown – brown/orange = L10
Black – black/red = L5
yellow/green to be used from this cable to make a five for the safety edge
Cable 2
Green – yellow/green = L6
Yellow – yellow/green from cable 1 = L11
White – red/orange = L8
Grey – black/blue = L9
Brown – brown/white = L10
Remove link from 5-6 and 6-7 leave link from 7-8
Set in3 to '**on**' in lcd display
Test operation on fob in automatic mode and test safety edge and photocell function.

Sales ref	China ref	Max torque	Max speed	Equivalent model
RSB-C1	RSB-1-18F	79Nm	20rpm	MFZ "F1"

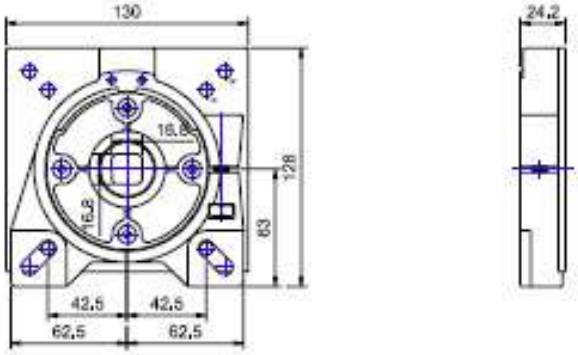
Maximum weight per barrel diameter							
76 mm	83mm	102mm	127mm	133mm	159mm	165mm	219mm
154kgs	146kgs	135kgs	114kgs	106kgs	n/a	n/a	n/a



RSB-1-18F (C1)

Sales ref	China ref	Max torque	Max speed	Equivalent model
RSB 0	RSB-1-18A	145Nm	22rpm	Trimmer "TAO-RDZ"

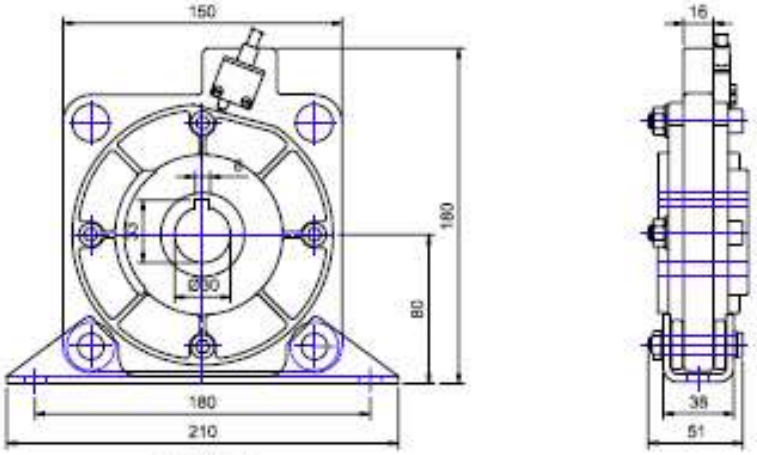
Maximum weight per barrel diameter							
76 mm	83mm	102mm	127mm	133mm	159mm	165mm	219mm
242kgs	234kgs	218kgs	175kgs	155kgs	140kgs	n/a	n/a



RSB-1-18A

Sales ref	China ref	Max torque	Max speed	Equivalent model
RSB 1/2	RSB-1-30	332Nm	22rpm	MFZ "TS-1/2"

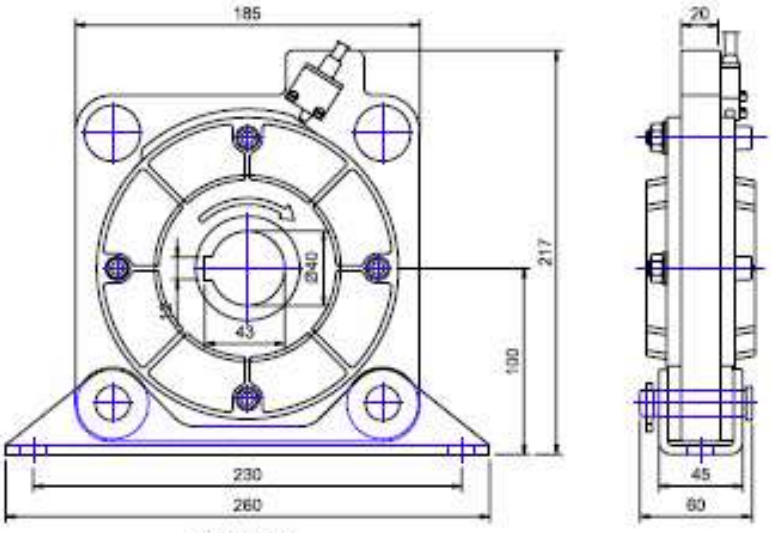
Maximum weight per barrel diameter							
76 mm	83mm	102mm	127mm	133mm	159mm	165mm	219kgs
n/a	n/a	460kgs	425kgs	405kgs	375kgs	360kgs	290kgs



RSB-1-30

Sales ref	China ref	Max torque	Max speed	Equivalent model
RSB 2/3	RSB-1-40	542Nm	22rpm	MFZ "TS-2/3"

Maximum weight per barrel diameter							
76 mm	83mm	102mm	127mm	133mm	159mm	165mm	219mm
154kgs	146kgs	135kgs	114kgs	106kgs	n/a	n/a	n/a



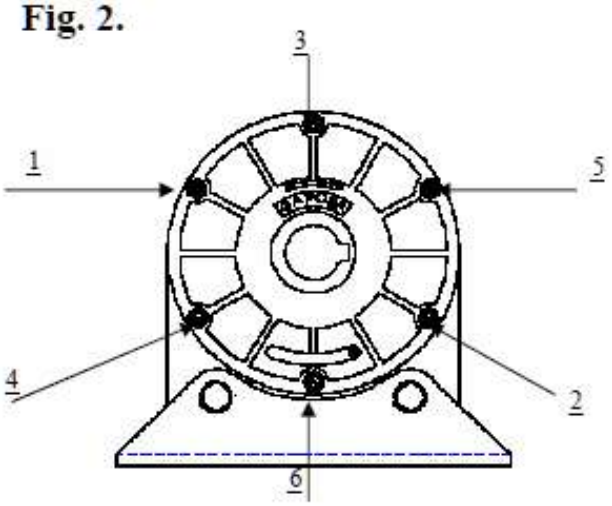
RSB-1-40

WARNING.

NEVER REMOVE THE PROTECTION BAG.
NEVER INSTALL THE SAFETY BRAKE OUTSIDE WITHOUT WEATHER PROTECTION.
MECHANICAL PROTECTION MUST BE USE TO GUARD AGAINST RAIN & SNOW
PROTECT THE SAFETY DEVICE AGAINST INDUSTRIAL DETERGENTS & HIGH PREASURE JET WASHING.

ALL THE ABOVE COULD DAMAGE THE FUNCTIONING OF THE DEVICE

Fig. 2.



Description.
The safety brake is a safety device for roller shutters without spring balance and is a mechanical brake to stop the shutter falling if mechanical/electrical failure occurs.
The Ellard Safety brake incorporates a micro-switch that disconnects the electrical supply to the motor if activated.

Installation Instructions.
1. The safety brake must be installed with the arrow pointing in the direction of the door decent
2. The safety brake must be installed in a horizontally and square above the fixing points.
3. Connect the safety brake micro-switch cable into the stop circuit of the door motor (this may need extra cable depending on the door width).
4. Never tamper with the screws and nuts on the central body.
5. Ellard Ltd is not responsible for any damage caused by improper installation or improper use.

KEEP THESE INSTRUCTIONS.
IMPORTANT SAFETY INSTRUCTIONS.

Ensure that the door is functioning correctly and is well maintained.
There is no damage to the door.
There is no wear and tear to the door.
There is no maintenance needed to the door.
When installing cordon off your working area.
Do not allow public access to the work area during installation.
Do not use if any sign of wear and tear or damage is observed.

TESTING INSTRUCTION
Check the accuracy of the installation by ensuring all fixing bolts are tight.
It is not possible to simulate a high speed fall of the door. With the roller shutter operating and you can hear the inner rollers falling into place, if the is clearly heard the safety brake has passed the working test.

REINSTATEMENT PROCEEDURE
1. Loosen the screws in the outer body of the brake in
2. sequence of (fig 2)
3. Move the slide peg in the opposite direction of the arrow to allow the micro switch to remake.
4. Tighten the screws in the same order as Fig.2 then complete the tightening in a diagonal rotation according to Tab A..

Tab A.

TECHNICAL DATA	M10A	M15A
NOMINAL TORQUE	1000	1551
LOCKING TORQUE	3560	8842
WORKING SPEED	12	12
SCREW TIGHTENING TORQUE	8	12
WEIGHT	12.5	19.5
BG-BON APPROVAL	TorFV5/067	TorFV 7/126
WORKING TEMP	minus 5 C to plus 40 C	

ellard

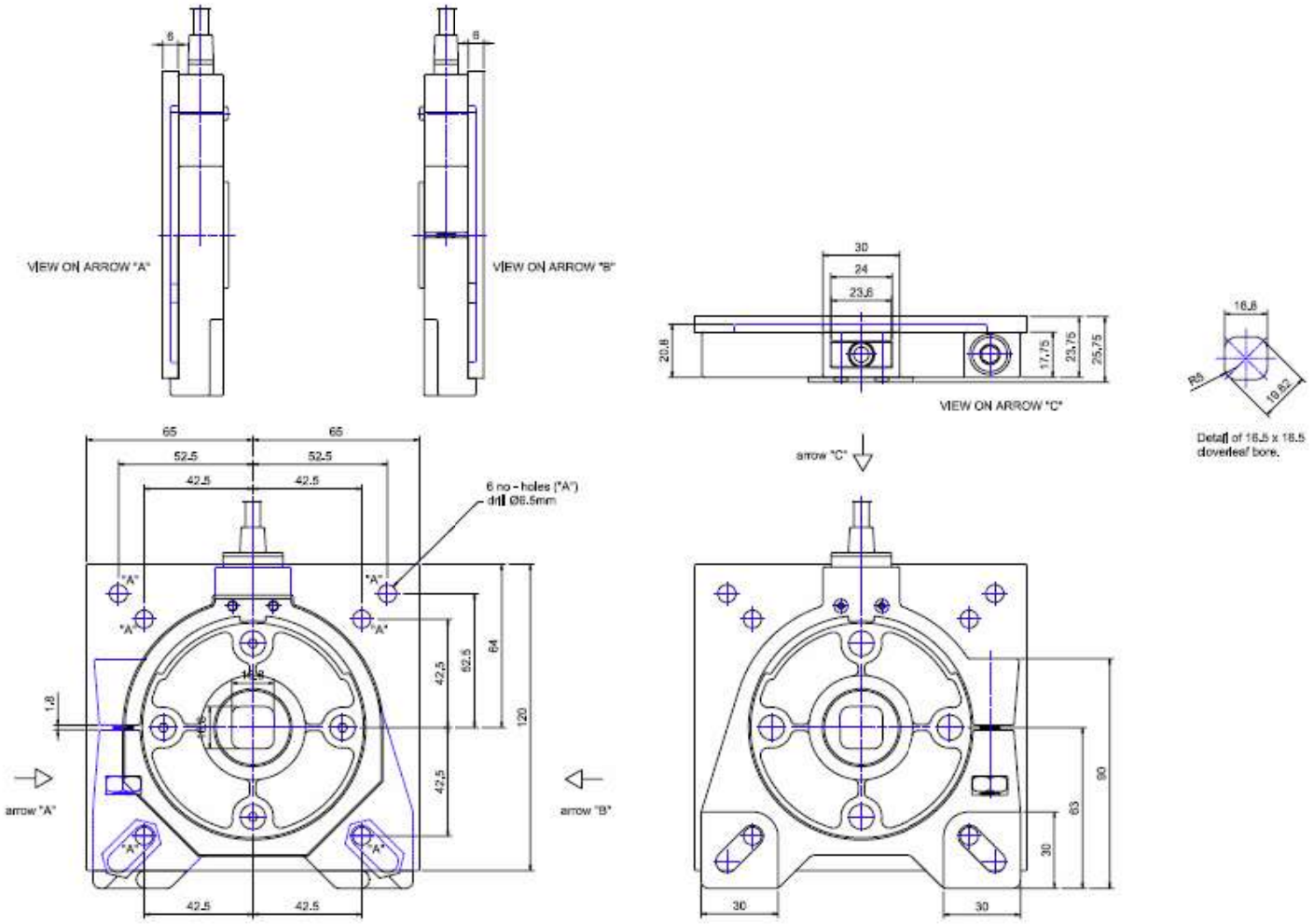
SAFETY BRAKE

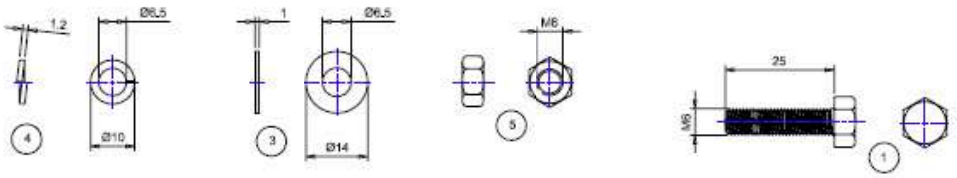
REFERENCE MANUAL

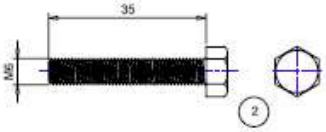
This manual contains all the data, information and instructions that, in consideration of the importance of the device, must absolutely be taken into consideration by designers as well as the installer.

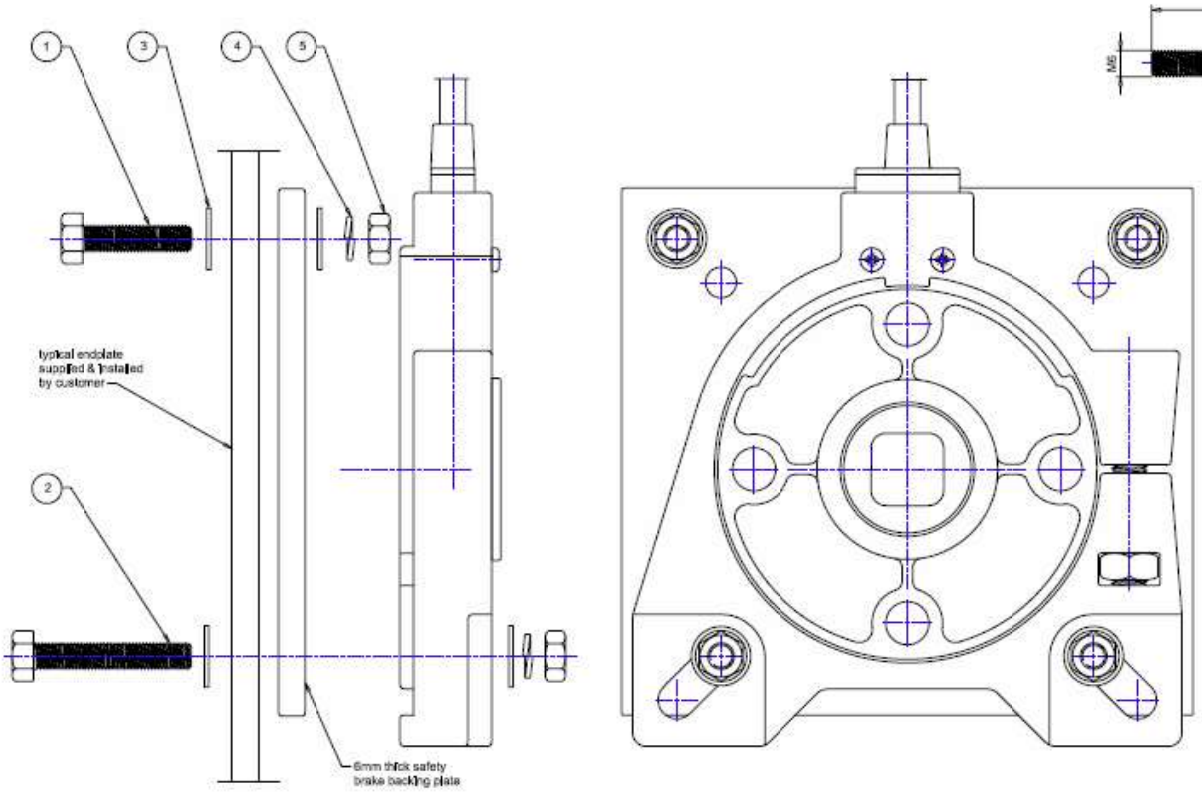
Both should have a complete understanding of the product, its installation and its application.

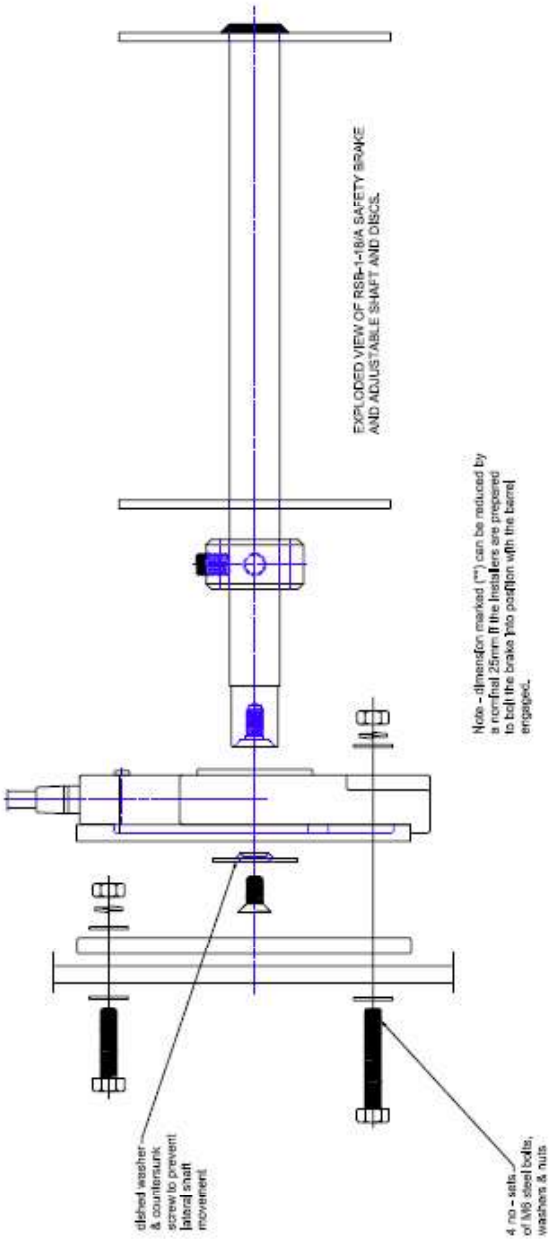
PLEASE READ CAREFULLY THIS HAND BOOK IN ALL ITS SECTIONS


6
VIEW ON ARROW "A"
8
VIEW ON ARROW "B"
30
24
23.6
20.8
17.75
23.75
25.75
VIEW ON ARROW "C"
16.8
R5
19.82
Detail of 16.5 x 18.5 dovetail bore.
65
65
52.5
52.5
42.5
42.5
6 no - holes ("A") drill Ø6.5mm
"A"
1.8
42.5
52.5
64
120
42.5
arrow "A"
arrow "B"
arrow "C"
90
63
30
30
30
42.5
42.5

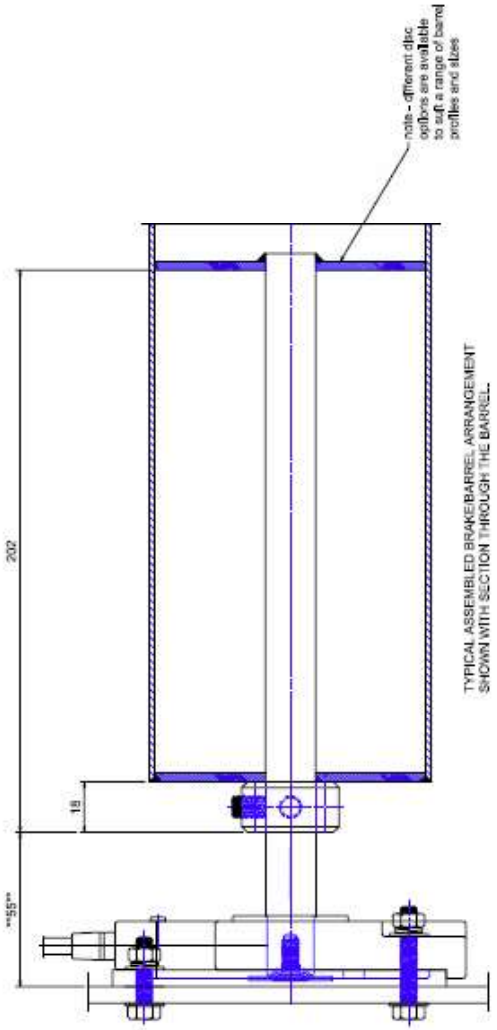

1.2
Ø6.5
Ø10
4
1
Ø6.5
Ø14
3
M6
5
25
M6
1


35
M6
2

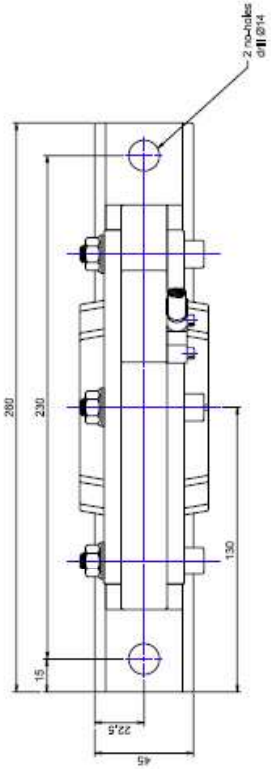

1
3
4
5
typical endplate supplied & installed by customer
2
6mm thick safety brake backing plate

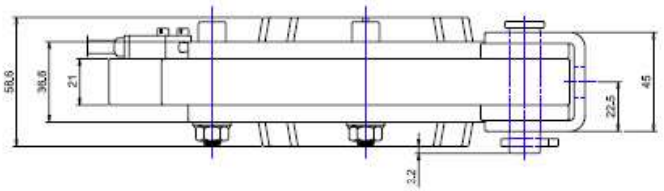


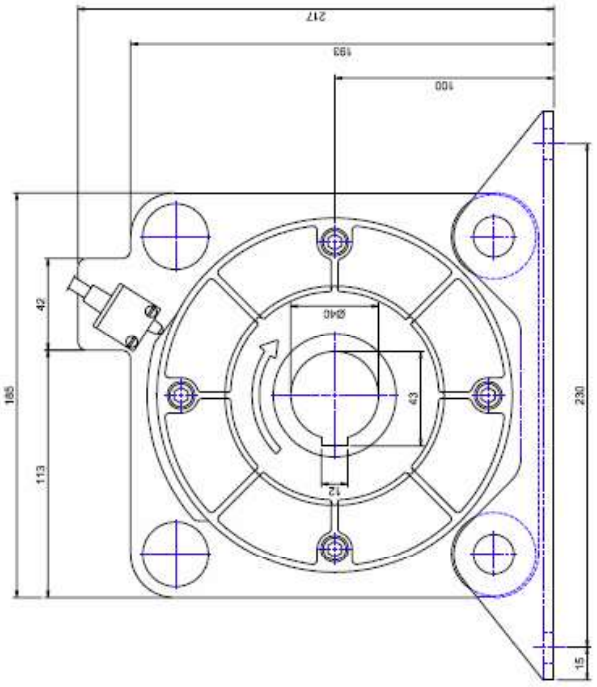
Note - dimension marked (**) can be reduced by a nominal 25mm if the installers are prepared to bolt the brake into position with the barrel engaged.



TYPICAL ASSEMBLED BRAKE/BARREL ARRANGEMENT
SHOWN WITH SECTION THROUGH THE BARREL.







RCS is a market leader in the supply of doors to the trade, our reputation for quality and service has enabled our business to grow and retain our customer base made up of the very best in the industry.

We pride ourselves on the high standard of quality and have spent years developing doors that are reliable, simple to install, aesthetically pleasing and affordable.

Our dedication to safety is paramount and intrinsic in all our products and services.

RCS as a company are committed to ensuring we do all we can to protect and save the environment.

All our products and services have been designed and tested to conform to all current, and some future, standards, law and regulations. You can be confident when you supplier has purchased from RCS you have chosen wisely.

NATIONAL COVERAGE AND DELIVERY

If you are not sure who supplied and installed your roller shutter door and their contact details are not present on the front cover simply provide us with the unique CE number from the guide leg and we can provide you with their details or arrange for them to contact you regarding service, maintenance and repair.

As the manufacturer we are happy to offer any advice or discuss any technical issues relating to the roller shutter of any of its controls, however, we will not discuss value or money. For any other information please contact your supplier.

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Rawtenstall,
Rossendale
BB4 6DJ

Tel: 0800 955 8013

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