Easy MBB QRG

Quick reference guides are not a replacement for the supplied instructions, they are supplementary
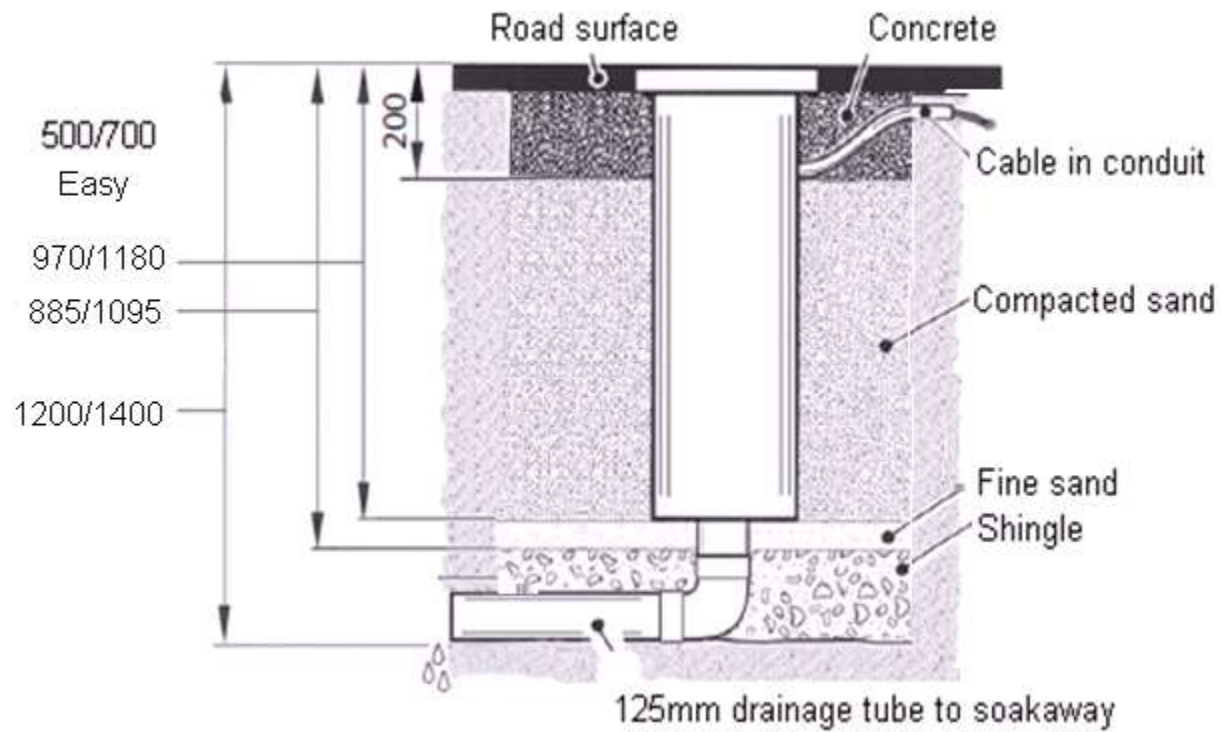Read and understand the installer warnings in the main instruction document first
Always apply good, safe, state of the art engineering and electrical installation principles
Safety of the completed installation is the ultimate responsibility of the installer
This product is not suitable for DIY use and should only be installed and maintained by a trained, skilled, professional installer
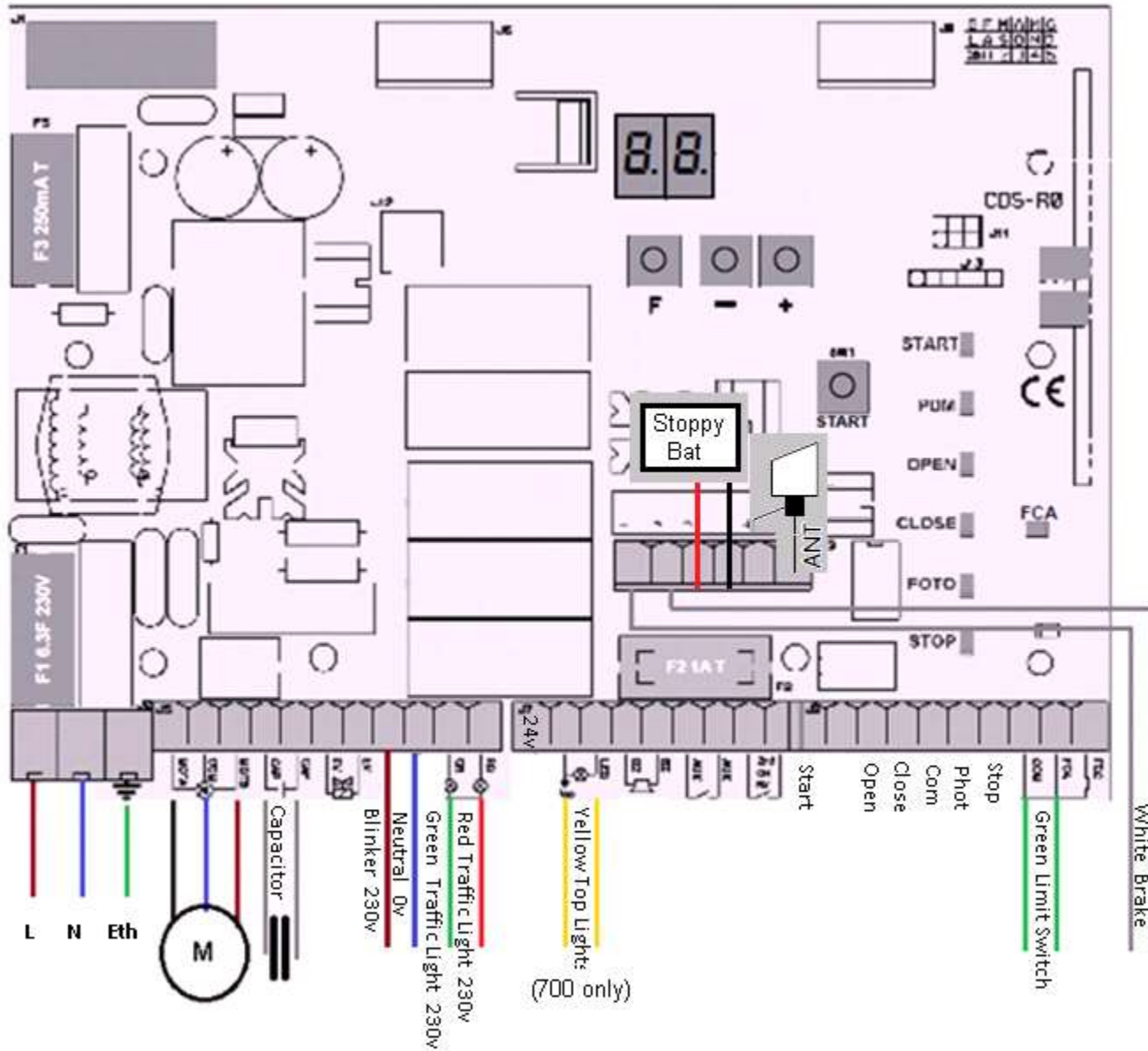
Foundations

Wiring

Fuse 1
6.3A
230v in & motor

Fuse 2
1A
24v out

Fuse 3
250mA
Brake & logic control

Simple Programming

Select 500mm or 700mm bollard

Press **F** & **+** together for 2 seconds

The display will show a random reading…..

Press **+** or **-** to select **e5** for 500mm and **e7** for 700mm

Press and hold **F** and then **+** to save and exit

Automatic Closing (TCA)

Press **F** for 2 seconds = **Lo**

Press **+** or **–** to select;

00 = Hold to Run

01 = TCA OFF

02 = TCA ON

Press **F** repeatedly until **St** displays then press **F** again to save and exit

Simple Programming cont.

Automatic Closing Time

Press **F** for 2 seconds = **Lo**

Press **F** repeatedly until **tP** displays

Press **+/-** to adjust (in seconds)

Press **F** repeatedly until **St** displays and press **F** again to save and exit

Phot cell response

Press **F** for 2 seconds = **Lo**

Press **F** repeatedly until **Ft** displays

Press **+/-** to adjust (00-02)

Press F repeatedly until **St** displays and press **F** again to save and exit

00 = Descends again during rising

01 = Descends and waits 1 sec. during rising

02 = Descends and waits 5 sec. during rising

**In all cases photo is ignored during descending

The previous commands are all in "Level 1" programming

There are a further 2 levels of programming – Level 2 and Level 3

Receiver - 2 Channel – 2048 transmitters

Program a button to channel 1 or 2

Press SW1 or SW2 x 1

= flashing LED

Press hidden button = constant LED

Press the desired button = flashing LED - press next hidden or leave to time out

Simultaneously program button 1 & 2

Press SW1 x 2 = CH1 Button 2 = CH2

= LED flashing in 2 flash cycles

Delete all Transmitters

Press SW1 x 6

Press SW1 & SW2 together for 10 seconds

= Rapid flashing – when flashing ends all transmitters are deleted

Level 1 Advanced Programming

Press **F** for 2 seconds = **Lo**
Press **F** repeatedly to select required item
Press **+** or **–** to adjust
Press **F** repeatedly to **St** and **F** once more to exit

Lo	0	Auto close	Will OPEN with pulse - hold-to-run CLOSE command
	1		TCA off
	2		TCA on
cL	0	Close command	Close command
	1		Fast close when it goes open circuit - will close during tca (close on un detect)
	2		Fast close + safety - will not close during tca
Ft	0	Phot cells	Re open + wait for tca
	1		Re open + wait 1 sec
	2		Re open + wait 5 sec
ob	0	Not used	Not used
Pf	0 to 30	Pre flash	Pre flash time
Ld	0	Lights	Flash during movement - fixed down/up
	1		Flash during movement and up - fixed down
	2		Flash always
	3		Flash during movement and down - fixed up
bU	0	Buzzer	Buzzer off
	1		Buzzer on during movement
dF	0	Default	
	1		Default the panel
tP	1 to 99	TCA Time	TCA time

Level 2 Advanced Programming

Press **F** for 2 seconds = **Lo**
Then with **F** still pressed press **+** once
Press **F** repeatedly to select required item
Press **+** or **–** to adjust
Press **F** repeatedly to **St** and **F** once more to exit

Sr	0	Maint. Req.	Off
	1		Active on aux
	2		Active on aux and double bollard light flash
nt	0 to 99		Thousands of cycles
nL	0 - 99		Millions of cycles
Au	0	Aux Output Active when..	Maintainance no. cycles reached
	1		Photo cell active
	2		
	3		PDM
	4		Bollard up (cuts in at end of run time)
	5		Bollard down (cuts in with limit)
	6		Stop active
	7	See Level 3 PA	Warning flash
	8		Start active
	9		Open active
	10		Powered up
	11		Panel/limit fault
tE	0 to 30	Heater	Deg. Above ambient setting
Cr	10 to 45	Slowd	Closing slow speed

Level 3 Advanced Programming

Press **F** for 2 seconds = **Lo**
Then with **F** still pressed press **+** twice
Press **F** repeatedly to select required item
Press **+** or **–** to adjust
Press **F** repeatedly to **St** and **F** once more to exit

Pd	0	PDM Input	N/O
	1		N/C
PA	0	Aux Output	N/O
	1		N/C
cP	0	Ibl TCA	OFF
	1		ON
FP	0	PDM Function	None
	1		No OPEN unless made - No CLOSE when made
	2		As above but CLOSE inactive till tca ends
	3		TERMON
rI	0	Radio CH1	OFF
	1		START
	2		OPEN
ht	20 to 80	230v	Mains Frequency (Hz)