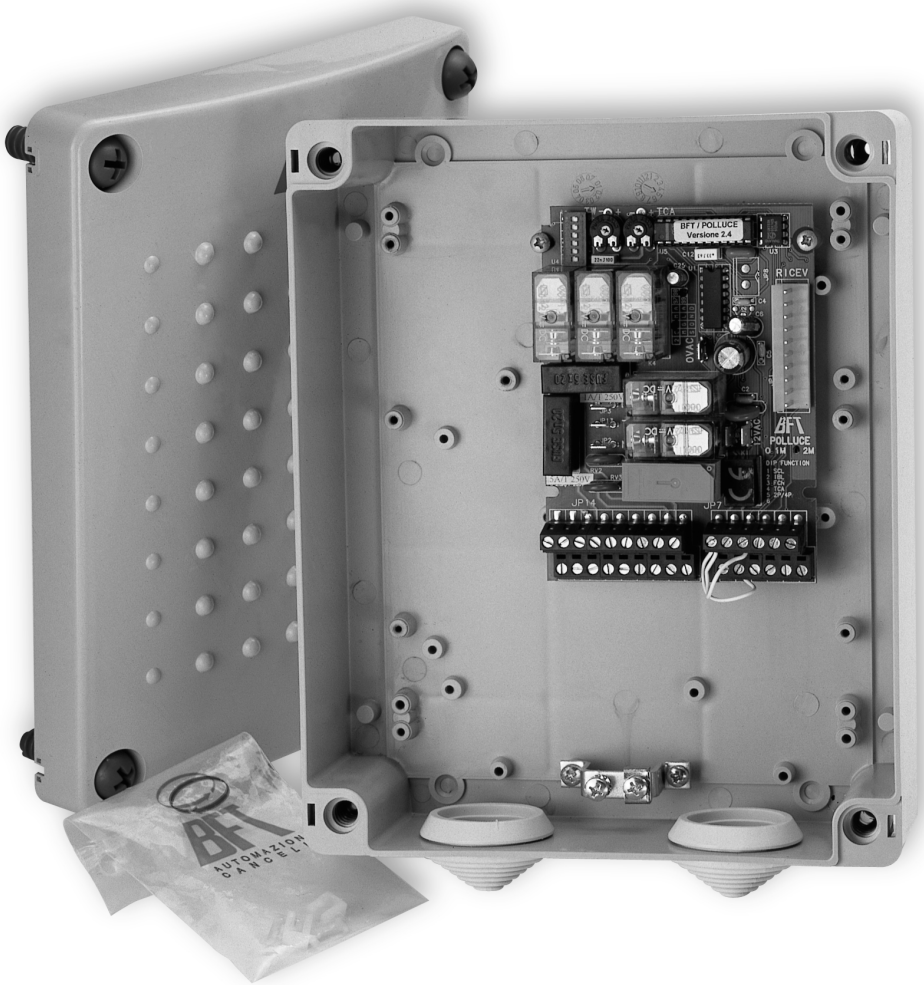
POLLUCE 2M-2E

D811199 10-07-00 Vers. 03

CONTROL UNIT



Thank you for buying this product, our company is sure that you will be more than satisfied with the performance of the product.
This product is supplied with a "WARNINGS" leaflet and an "INSTRUCTION MANUAL". These should both be read carefully as they provide important information about safety, installation, operation and maintenance.
This product complies with recognized technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 89/336/EEC and 73/23/EEC (amended by RL 91/263/EEC, 92/31/EEC and 93/68/EEC).

1) GENERAL OUTLINE
The POLLUCE 2M Mod. Unit is suitable for operating 1 or 2 ARM2 series controllers, and has been designed to automate various types of overhead doors.
The unit can be: Included with the ARM2 series (fig. 1).
Fitted onto a wall panel (fig. 2) for use with the series without the control unit (ARM2-SQ series). 2 possible configurations are available in case two-motor overhead door automation is required:
No. 1 ARM2 + No. 1 ARM2-SQ.
No. 2 ARM2-SQ + No. 1 2M POLLUCE with panel, wall-mounted.

2) TECHNICAL SPECIFICATIONS

Power supply voltage:	**230V±6% 50/60Hz (*)**
No load current:	**150 (varies depending on accessories)**
Max. absorbed rating:	**300W for motor**
Power supply to accessories:	**24Vac ± 20%**
Max. current for accessories:	**0.25A (6VA)**
Working temperature:	**-20° +60°C**
Max. No. of manoeuvres in 24h:	**40**
Automatic closing time TCA:	**adjustable 0 - 90 sec**
Operation time TW:	**adjustable 0 - 40 sec**
Time-set courtesy light:	**230V - 40W max. 90 sec**
Blinker:	**230V - 40W max.**

(*) For 110V power supply see fuse values in figs. 1 - 2.

3) FUNCTION LOGIC
START: four-step logic: (DIP5 OFF)

gate closed:	**opens**
on opening:	**stops and inserts TCA if configured**
gate opened:	**closes**
on closing:	**stops but will not insert TCA**
after stopping:	**moves to open**

START: two-step logic: (DIP5 ON)

door closed:	**opens**
on opening:	**stops and inserts TCA if configured**
door opened:	**closes**
on closing:	**opens**
after stopping:	**opens**

STOP: Stops the gate until restart
PHOT: Photocell input. Configured by means of DIP3
SWO: Stops door at end of opening stroke
SWC: stops door at end of closing stroke
SCA: Door open warning light

with door closed:	**off**
with door opening:	**on**
with door opened:	**on**
with door closing:	**blinking**

4) DIP-SWITCH SELECTION
DIP1: Swift Closure (SCL)
ON: When there is movement across the photocells, either on entry or on exit, at the last disengagement of the photocells, the door closes automatically without waiting for the TCA to end. This function is recommended whenever the safety conditions of the installation allow the configuration of DIP3-ON (the photocells are only active on closing).
OFF: Function deactivated.
DIP2: Blocks impulses on opening (IBL)
ON: Will not accept START commands during opening phase.
OFF: Accepts START commands during opening phase.
DIP3: Photocell on opening (FCH)
ON: Photocell is only active on closing.
OFF: Photocell is active both on closing and opening.
DIP4: Automatic closing time (TCA)
ON: Automatic closing time inserted (adjustable 0 - 90 sec with trimmer TW).
OFF: Automatic closing time excluded.
DIP5: Control logic (2P/4P)
ON: Activates two-step logic (see paragraph on start).
OFF: Activates four-step logic (see paragraph on start).
DIP6: Not used (always leave OFF).

5) TRIMMER ADJUSTMENT
TCA **Sets the automatic closing time, after which the door closes automatically (adjustable from 0 to 90 sec).**
TW **Sets the motor operating time, after which the motor stops (adjustable from 0 to 40 sec). Allows the motor to be stopped in the case where, for any reason, the limit microswitch is not detected.**

6) MOTOR TORQUE SETTING
The POLLUCE 2M mod. board is supplied by a transformer which also allows the electric motor torque to be selected.
DANGER: The transformer terminals are connected to the mains power supply. Disconnect the mains power supply before doing any work on the installation. To select the torque tap, remove the transformer protection and remember to replace it afterwards.
The selection is carried out by moving connection "55" of the transformer to one of the 4 taps "T1 - T2 - T3 - T4" as shown in figs. 1 -2.
In the case where the overhead door produces excessive friction, which can be detected by the force required to open the door manually, check the balancing or carry out the necessary maintenance to eliminate it.
WARNING: Excessive torque adjustment may jeopardize the anti-squash safety function.
On the other hand insufficient torque adjustment may not guarantee correct opening or closing strokes.

7) POLLUCE 2M TERMINAL BOARD CONNECTIONS **(fig. 3)**

JP14	
1-10	**Single phase power supply 230V±6% 50/60Hz (1=L/10=N)**
2-5	**Not used**
3-4	**M1 motor capacitor**
11-12-13	**M1 Motor connection (12 common, 11-13 run)**
6-7	**M2 motor capacitor**
14-15-16	**M2 motor connection (15 common, 14-16 run)**
8-17	**Time-set courtesy light connection (25W max.)**
9-18	**Blinker connection 230V (40W max.)**
JP7	
25	**Control common terminal (corresponding to terminal 19)**
19-20	**Start button (opens - closes N.O.)**
19-26	**Lock button (N.C.). When not used leave bridged.**
19-21	**Electric edge or photocell input (N.C.). When not used leave bridged.**
19-22	**Closing limit microswitch connection (SWC)**
19-27	**Opening limit microswitch connection (SWO)**
28-23	**24 Vac 0.25A max. (6VA) outlet (power supply to photocell or other devices)**
23-29	**Gate open warning light 24V (3W max.)**
24-30	**Antenna input for radio receiver board (24 signal - 30 braid).**
JP1	**Radio receiver board connector. 1-2 channels.**
JP8	**Second radio channel output from the double-channel receiving board (not fitted) (dry contact N.O.)**

8) POLLUCE 2E TERMINAL BOARD CONNECTIONS **(fig. 4)**
Another version is also available which allows the connection of a 12V electric lock. This version is known as POLLUCE 2E.
Fig. 4 only shows the part of the terminal board regarding the electric lock connection. For all other connections, reference should made to the terminal board in fig. 3.

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Fig. 1

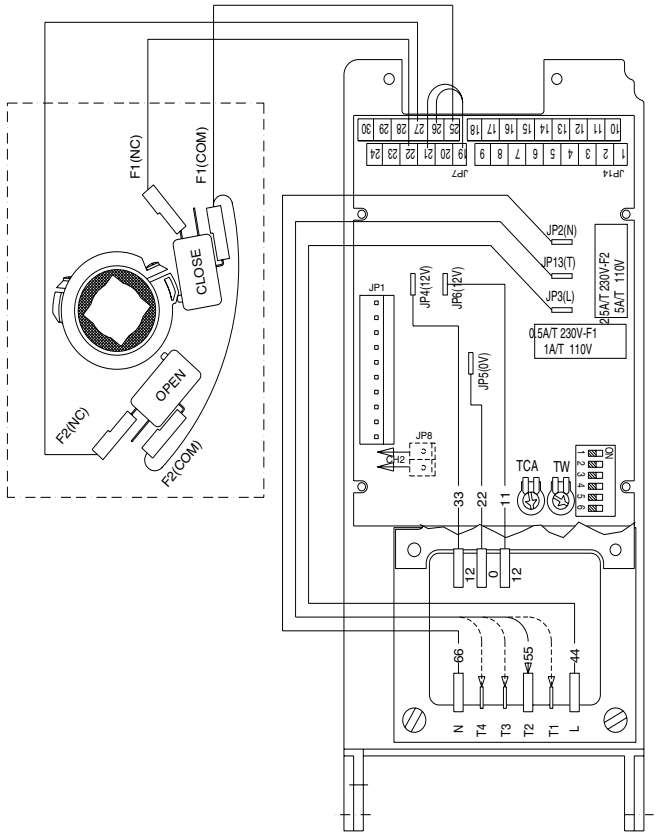


Fig. 2

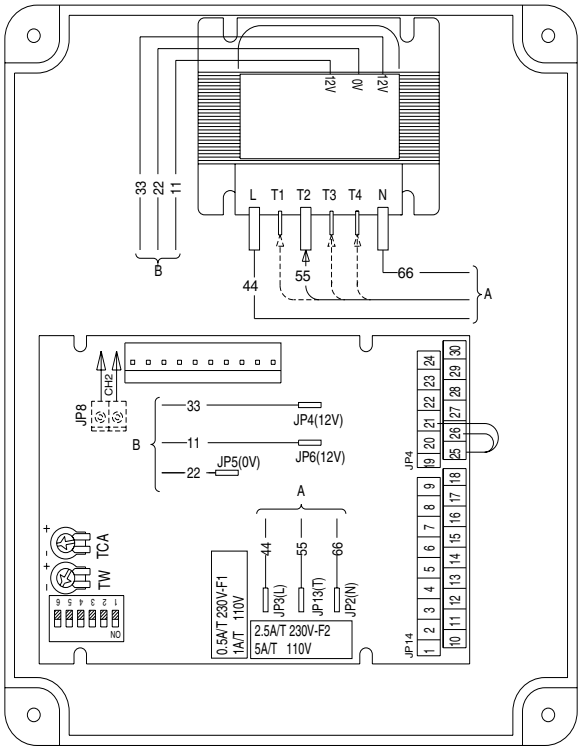


Fig. 3

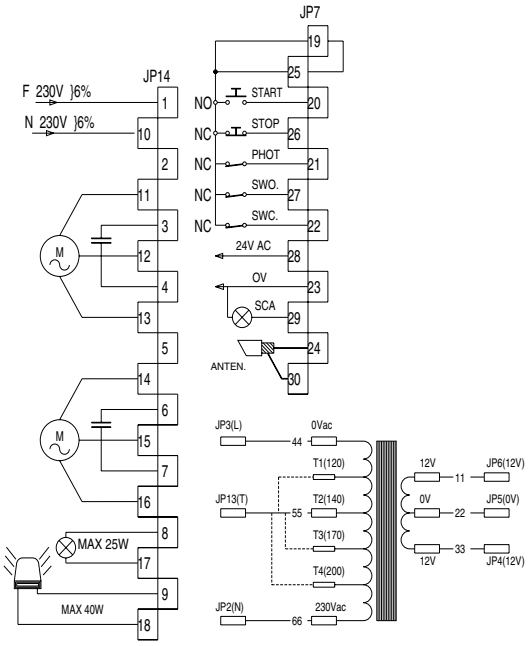
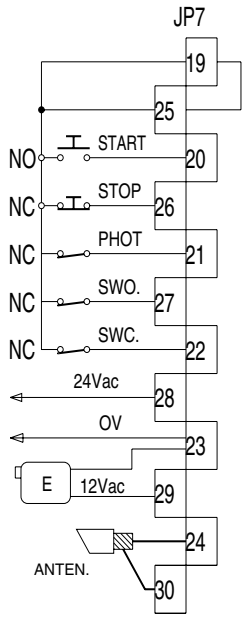


Fig. 4



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