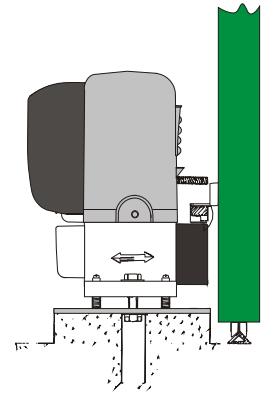
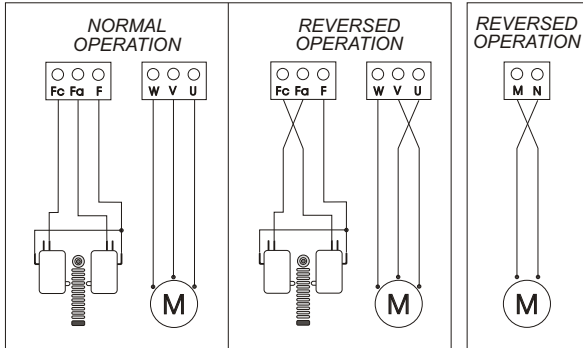
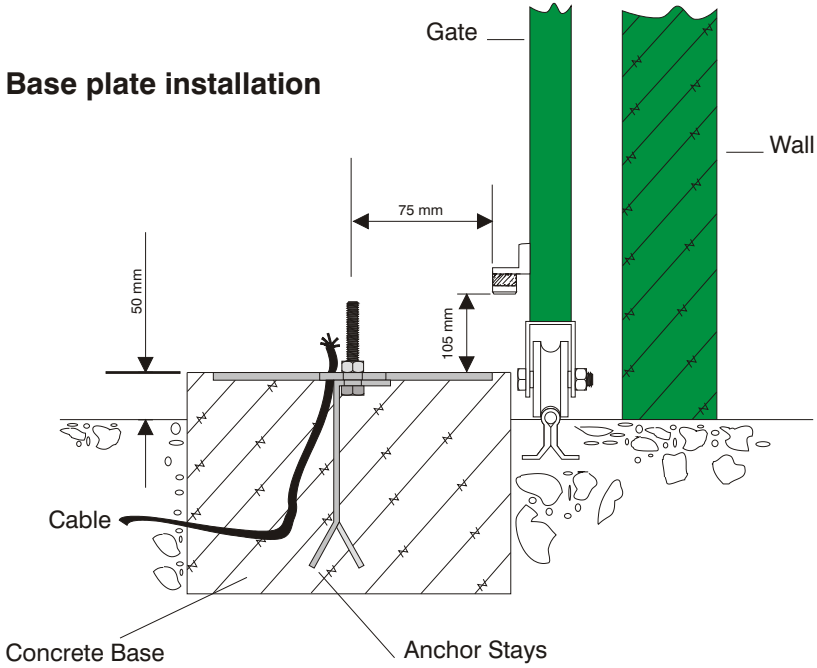


Internet www.tribpt.co.za
Email info@tribpt.co.za



Base plate installation

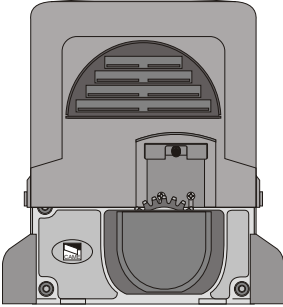


tribpt

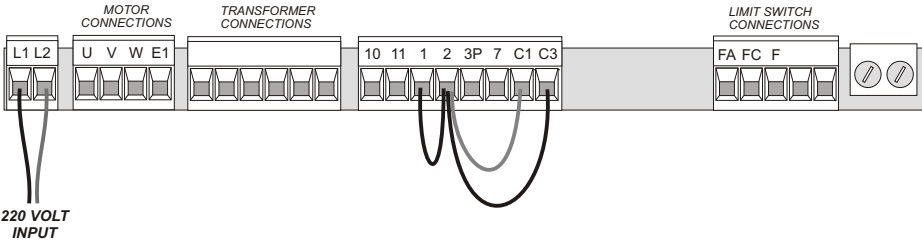
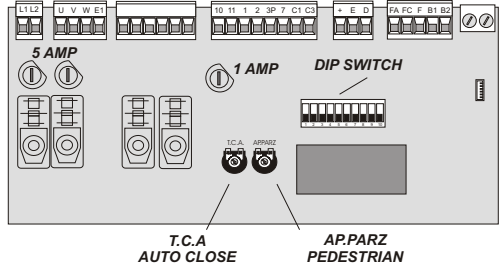
All motors are supplied standard for right hand installations. If you need to change the direction, reverse the motor wires U and V and the limit switches FA and FC.

On the low voltage motor (24V) reverse M and N and the limit switches FA and FC.

For any diagrams not shown or special system designs please contact our office on (011) 616-3222 or visit our web site www.tribpt.co.za



**PLEASE
CHECK
PC BOARD
NUMBER**



The dip selection should be carried out with the motor power switched off & gate in the closed position.

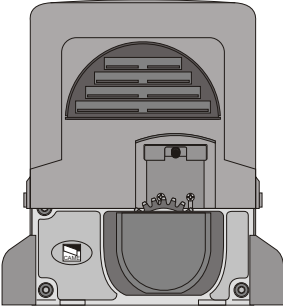
| | |
|----------------|--|
| 1 + 2 | INSERT LINK FOR TOTAL STOP (LINK MUST BE INSERTED) |
| 2 + C1 | INSERT LINK IF BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + C3 | INSERT LINK IF PARTIAL STOP BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + 7 | TRIGGER TO OPERATE MOTOR (NO VOLTAGE CONTACT) |
| 2 + 3P | TRIGGER TO OPERATE PEDESTRIAN (NO VOLTAGE CONTACT) |
| 10 + 11 | 24 VOLT AC OUTPUT FOR AUXILIARY SERVICES |
| 2 + 3 | OPEN ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 2 + 4 | CLOSE ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 2 + 5 | GATE STATUS |
| + + - | BATTERY CONNECTION |

| ON | | <i>DIP SWITCH PROGRAM</i> | |
|----|----|---------------------------|-----|
| 1 | ON | 2 | OFF |
| 3 | ON | 4 | ON |
| 5 | ON | 6 | ON |
| 7 | ON | 8 | ON |
| 9 | ON | 10 | OFF |

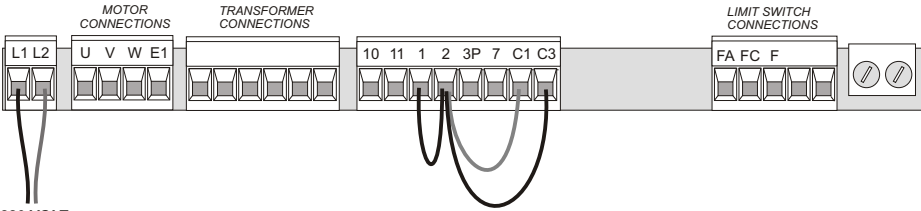
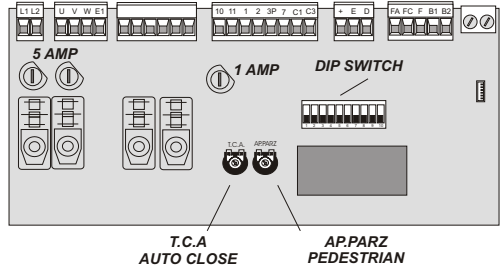
| ON | OFF | DESCRIPTION | NOTES |
|--------|-----|----------------------|---|
| 1 ON | | AUTO CLOSE | |
| 2 OFF | | OPEN STOP CLOSE STOP | GATE REVERSES ON COMMAND |
| 2 ON | | OPEN CLOSE REVERSE | GATE REVERSES ON COMMAND |
| 3 ON | | OPEN ONLY | CONDO MODE |
| 4 ON | | PRESENT MAN | |
| 5 ON | | PRE FLASHING | 5 SECOND DELAY ON TRIGGER |
| 6 ON | | OBSTACLE DETECTOR | GATE ON LIMIT POSITION IF SAFETY DEVICE IS ATTACHED |
| 7 ON | | RE-OPEN DURING CLOSE | SAFETY DEVICE TO BE USED IF PEDESTRIAN MODE IS USED |
| 8 ON | | HOLD DURING CLOSE | SAFETY DEVICE TO BE USED IF PEDESTRIAN MODE IS USED |
| 9 ON | | EMERGENCY STOP | NORMALLY CLOSED CONTACT |
| 10 OFF | | NOT USED | |



SLIDE SERIES BX7T



**PLEASE
CHECK
PC BOARD
NUMBER**



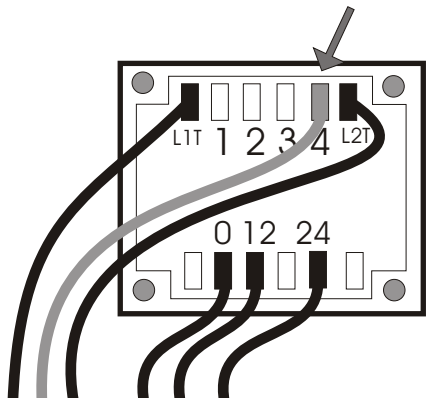
220 VOLT
INPUT

The dip selection should be carried out with the motor power switched off & gate in the closed position.

| ON | | DIP SWITCH PROGRAM | |
|----|----------------------|---|----|
| 1 | ON | 1 | 2 |
| 2 | OFF | 3 | 4 |
| 2 | ON | 5 | 6 |
| 3 | ON | 7 | 8 |
| 4 | ON | 9 | 10 |
| 5 | ON | | |
| 6 | ON | | |
| 7 | ON | | |
| 8 | ON | | |
| 9 | ON | | |
| 10 | ON | | |
| 1 | AUTO CLOSE | | |
| 2 | OPEN STOP CLOSE STOP | GATE REVERSES ON COMMAND | |
| 2 | OPEN CLOSE REVERSE | GATE REVERSES ON COMMAND | |
| 3 | OPEN ONLY | CONDO MODE | |
| 4 | NOT USED | | |
| 5 | PRE FLASHING | 5 SECOND DELAY ON TRIGGER | |
| 6 | COURTESY LIGHT | OFF POSITION FOR PRE FLASH LIGHT | |
| 7 | RE-OPEN DURING CLOSE | SAFETY DEVICE (IE BEAMS) | |
| 8 | HOLD DURING CLOSE | SAFETY DEVICE TO BE USED IF PEDESTRIAN MODE IS USED | |
| 9 | EMERGENCY STOP | NORMALLY CLOSED CONTACT | |
| 10 | (KEEP SWITCH ON) | | |

IMPORTANT

Please set the torque to maximum = 4 on the transformer.



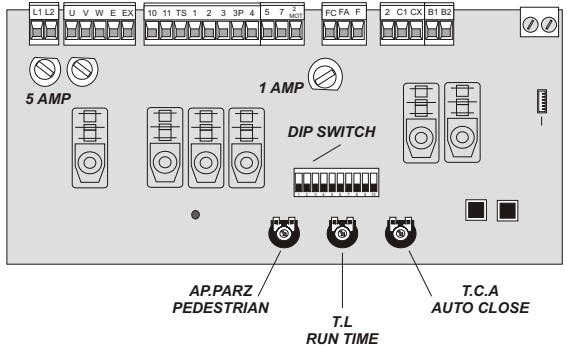


SLIDE SERIES BX AND BXN

ON **DIP SWITCH PROGRAM**

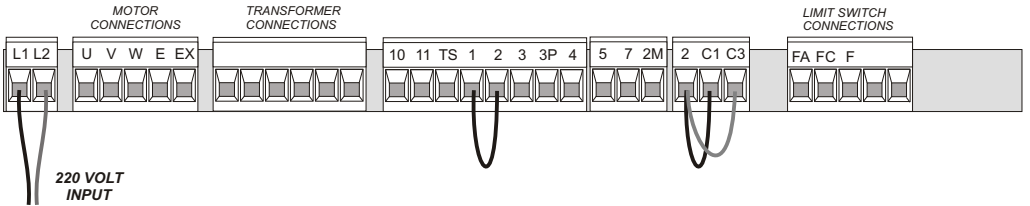
OFF

| | | |
|----|-----|--|
| 1 | ON | AUTO CLOSE |
| 2 | ON | OPEN STOP CLOSE STOP <small>GATE REVERSES ON COMMAND</small> |
| 2 | OFF | OPEN CLOSE REVERSE <small>GATE REVERSES ON COMMAND</small> |
| 3 | ON | OPEN ONLY <small>CONDO MODE</small> |
| 4 | ON | PRESENT MAN |
| 5 | ON | PRE FLASHING <small>5 SECOND DELAY ON TRIGGER</small> |
| 6 | ON | OBSTACLE DETECTOR <small>GATE ON LIMIT POSITION IF SAFETY DEVICE IS ATTACHED</small> |
| 7 | ON | MASTER FUNCTION ENABLED |
| 8 | OFF | NOT USED KEEP OFF |
| 9 | ON | SLAVE FUNCTION ENABLED |
| 10 | ON | COURTESY LIGHT ENABLED |



Dip Switch settings for new BXN PC Board

PLEASE CHECK PC BOARD NUMBER



3 Wires are required between two motors if installed as master and slave

| | |
|---------|--|
| 1 + 2 | INSERT LINK FOR TOTAL STOP (LINK MUST BE INSERTED) |
| 2 + C1 | INSERT LINK IF BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + C3 | INSERT LINK IF PARTIAL STOP BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + 7 | TRIGGER TO OPERATE MOTOR (NO VOLTAGE CONTACT) |
| 2 + 3P | TRIGGER TO OPERATE PEDESTRIAN (NO VOLTAGE CONTACT) |
| 10 + 11 | 24 VOLT AC OUTPUT FOR AUXILIARY SERVICES |
| 2 + 3 | OPEN ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 2 + 4 | CLOSE ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 10 + 5 | GATE STATUS 24 V 3W (use 1K res for Led) |

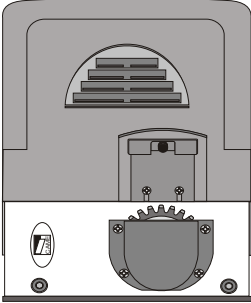
ON **DIP SWITCH PROGRAM**

OFF

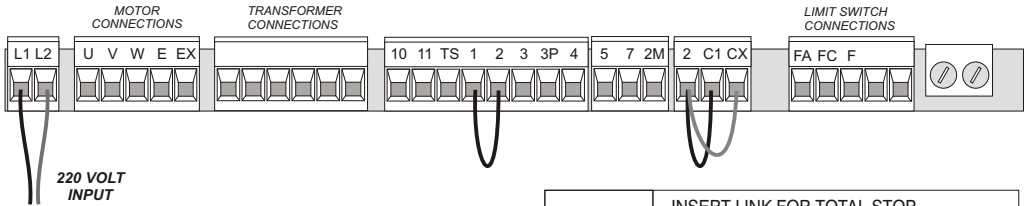
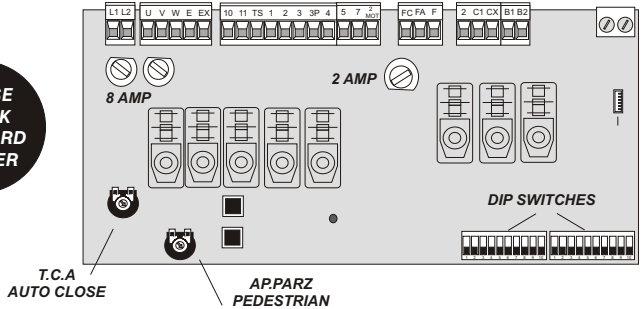
| | | |
|----|-----|--|
| 1 | ON | NOT USED |
| 2 | ON | |
| 3 | OFF | OPEN ONLY <small>CONDO MODE</small> |
| 4 | OFF | |
| 2 | OFF | |
| 3 | ON | OPEN STOP CLOSE STOP <small>GATE REVERSES ON COMMAND</small> |
| 4 | OFF | |
| 2 | OFF | |
| 3 | OFF | OPEN CLOSE REVERSE <small>GATE REVERSES ON COMMAND</small> |
| 4 | ON | |
| 5 | ON | MASTER PILOT MOTOR |
| 6 | ON | NOT USED |
| 7 | ON | PRE FLASHING <small>5 SECOND DELAY ON TRIGGER</small> |
| 8 | ON | OBSTACLE DETECTOR <small>GATE ON LIMIT POSITION IF SAFETY DEVICE IS ATTACHED</small> |
| 9 | ON | AUTO CLOSE |
| 10 | ON | PRESENT MAN |



SLIDE SERIES BK



PLEASE CHECK PC BOARD NUMBER



| | |
|---------------|--|
| 2 + 3 | OPEN ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 2 + 4 | CLOSE ONLY TRIGGER (NO VOLTAGE CONTACT) |
| 10 + 5 | GATE STATUS 24 V 3W (use 1K res for Led) |

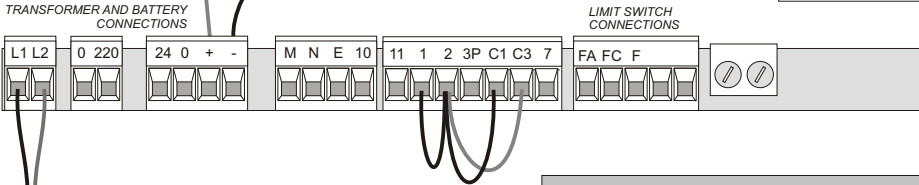
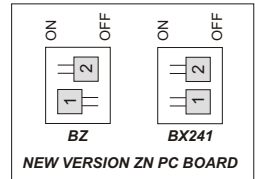
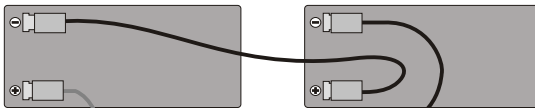
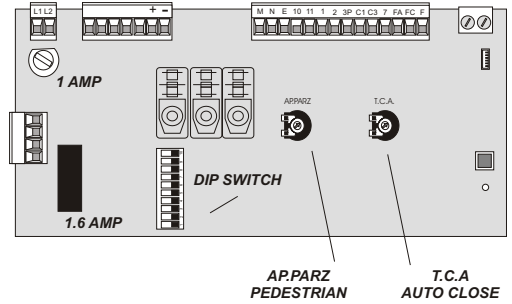
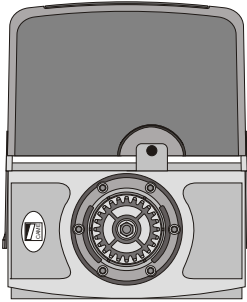
| | |
|----------------|--|
| 1 + 2 | INSERT LINK FOR TOTAL STOP (LINK MUST BE INSERTED) |
| 2 + C1 | INSERT LINK IF BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + CX | INSERT LINK IF PARTIAL STOP BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + 7 | TRIGGER TO OPERATE MOTOR (NO VOLTAGE CONTACT) |
| 2 + 3P | TRIGGER TO OPERATE PEDESTRIAN (NO VOLTAGE CONTACT) |
| 10 + 11 | 24 VOLT AC OUTPUT FOR AUXILIARY SERVICES |

ON *DIP SWITCH PROGRAM*

| | | | | | | | | | |
|---------------|--|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 ON | AUTO CLOSE | | | | | | | | |
| 2 OFF | OPEN STOP CLOSE STOP <small>GATE REVERSES ON COMMAND</small> | | | | | | | | |
| 2 ON | OPEN CLOSE REVERSE <small>GATE REVERSES ON COMMAND</small> | | | | | | | | |
| 3 ON | OPEN ONLY <small>CONDO MODE</small> | | | | | | | | |
| 4 ON | PRESENT MAN | | | | | | | | |
| 5 ON | PRE FLASHING <small>5 SECOND DELAY ON TRIGGER</small> | | | | | | | | |
| 6 ON | OBSTACLE DETECTOR <small>GATE ON LIMIT POSITION IF SAFETY DEVICE IS ATTACHED</small> | | | | | | | | |
| 7 ON | RE-OPEN DURING CLOSE <small>SAFETY DEVICE I.E. BEAMS</small> | | | | | | | | |
| 8 OFF | RE-CLOSE DURING OPEN <small>SAFETY DEVICE TO BE USED IF PEDESTRIAN MODE IS USED</small> | | | | | | | | |
| 8 OFF | HOLD DURING CLOSE <small>NORMALLY CLOSED CONTACT</small> | | | | | | | | |
| 10 OFF | EMERGENCY STOP <small>NORMALLY CLOSED CONTACT</small> | | | | | | | | |

ON

| | | | | | | | | | |
|-----------------|---|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 11 OFF | SLAVE FUNCTION <small>ENABLE WHEN SLAVE MOTOR IS CONNECTED</small> | | | | | | | | |
| 12 OFF | PARTIAL OPENING <small>AUTO CLOSE IN 8 SECONDS</small> | | | | | | | | |
| 13 OFF | PARTIAL OPENING <small>AUTO CLOSE ADJUSTABLE BY TRIMMER</small> | | | | | | | | |
| 14 OFF | TEST CHECK ON SAFETY BEAM | | | | | | | | |
| 15 OFF | NOT USED | | | | | | | | |
| 16 OFF | COURTESY LIGHT <small>COURTESY LIGHT TIMED OPERATION</small> | | | | | | | | |
| 17 OFF | LAMP CYCLE FUNCTION <small>LIGHT OPERATES WHEN MOTOR IS ACTIVE</small> | | | | | | | | |
| 18/19/20 | NOT USED | | | | | | | | |



220 VOLT INPUT

PLEASE CHECK PC BOARD NUMBER

The dip selection should be carried out with the motor power switched off & gate in the closed position.

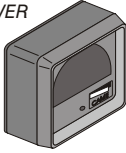
| | |
|--------------------------------------|--|
| 1 + 2 | INSERT LINK FOR TOTAL STOP (LINK MUST BE INSERTED) |
| 2 + C1 | INSERT LINK IF BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + C3 | INSERT LINK IF PARTIAL STOP BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + 7 | TRIGGER TO OPERATE MOTOR (NO VOLTAGE CONTACT) |
| 2 + 3P | TRIGGER TO OPERATE PEDESTRIAN (NO VOLTAGE CONTACT) |
| 10 + 11 | 24 VOLT AC OUTPUT FOR AUXILIARY SERVICES |
| 11 $\frac{Fa}{Fc}$ | GATE STATUS USE 1 K RESISTOR USE DIODE IF LED FLICKERS |
| + / - | BATTERY CONNECTION |

| ON | | DIP SWITCH PROGRAM | |
|----|-----|---|----|
| 1 | ON | 1 | 2 |
| 2 | OFF | 3 | 4 |
| 3 | ON | 5 | 6 |
| 4 | ON | 7 | 8 |
| 5 | ON | 9 | 10 |
| 6 | ON | 5 SECOND DELAY ON TRIGGER | |
| 7 | ON | GATE ON LIMIT POSITION IF SAFETY DEVICE IS ATTACHED | |
| 8 | ON | SAFETY DEVICE (E-BEAMS) | |
| 9 | ON | NORMALLY CLOSED | |
| 10 | OFF | SAFETY DEVICE TO BE USED IF PEDESTRIAN MODE IS USED | |

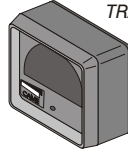


WIRING OF BEAMS (RE-OPEN)

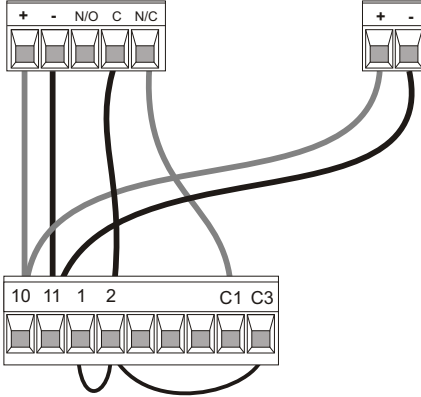
RECEIVER



TRANSMITTER



| | | |
|---|-----|-------------------|
| | | ON |
| | | OFF |
| 1 | ON | TWO SETS OF BEAMS |
| 1 | OFF | ONE SET OF BEAMS |
| 2 | ON | 12 VOLT SUPPLY |
| 2 | OFF | 24 VOLT SUPPLY |



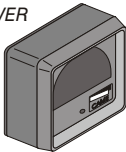
DIP SWITCH PROGRAM

De-active this feature on Dip switches

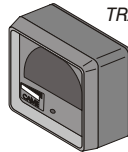


WIRING OF BEAMS (PARTIAL-STOP)

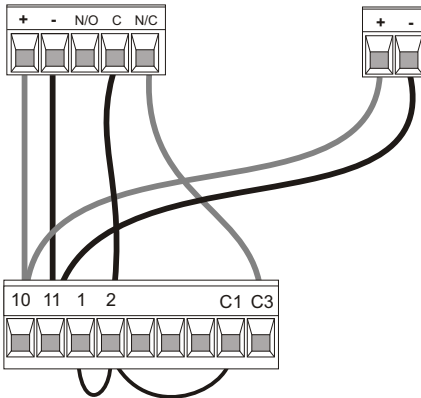
RECEIVER



TRANSMITTER



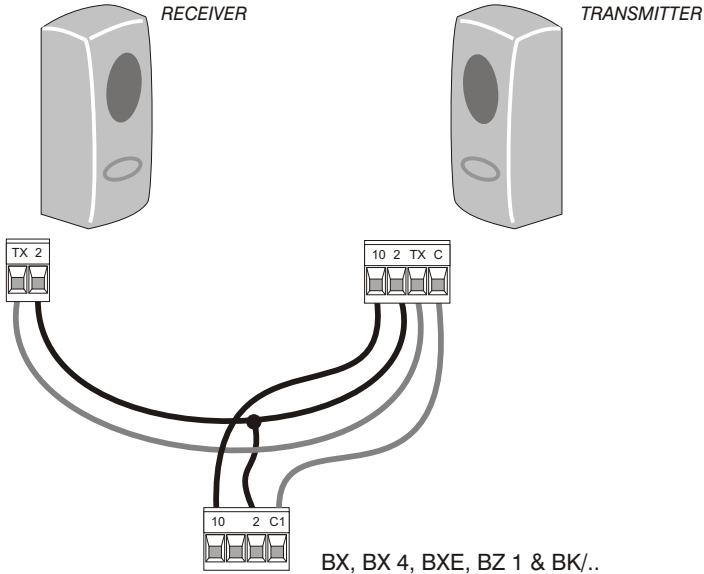
| | | |
|---|-----|-------------------|
| | | ON |
| | | OFF |
| 1 | ON | TWO SETS OF BEAMS |
| 1 | OFF | ONE SET OF BEAMS |
| 2 | ON | 12 VOLT SUPPLY |
| 2 | OFF | 24 VOLT SUPPLY |



De-active this feature on Dip switches



WIRING OF DIR BEAMS (RE-OPEN)



De-active this feature on Dip switches



LOOP DETECTOR TRIGGER

DIP SWITCH SETTINGS

FREQUENCY SELECTION (1 AND 2)

If more than one loop detectors are installed next to each other, set different frequencies on each one

SENSITIVITY SETTING (3 AND 4)

Set how sensitive the loop detector must be when cars or trucks are detected

SENSITIVITY BOOST (5)

Boost sensitivity used when larger vehicles are to be detected

FILTER (6)

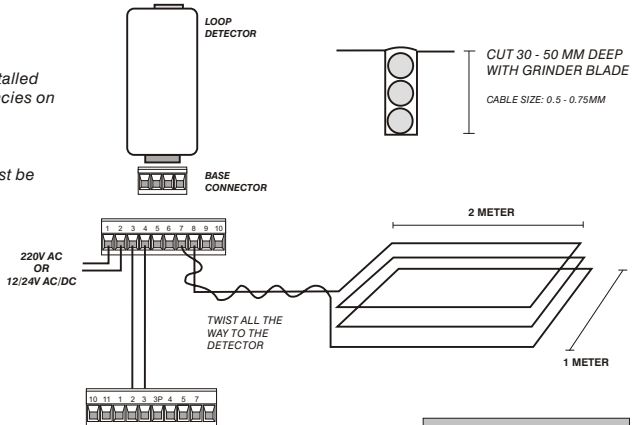
Not used

PULSE SETTING (7)

Select trigger if vehicle on the loop or vehicle leaving the loop

PRESENCE SETTING (8)

Select presence for permanent or limited If used as safety

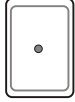


**BY 2,3,1500
BX
BXE 24
BK/1200 - 2200
BY 3500**



FULL OPEN TRIGGER

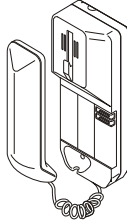
RECEIVER



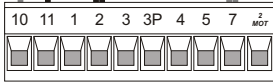
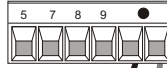
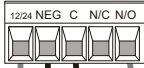
READERS



INTERCOM



SWITCH



BY MOTORS

*On BY series
use 0 and 1 for
24 volt ac*



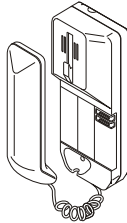
PEDESTRIAN TRIGGER

APPARZ

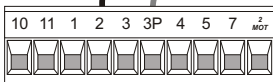
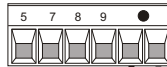


*Adjust trimmer
for width of opening*

INTERCOM



READERS

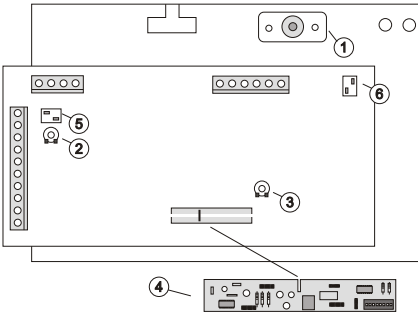
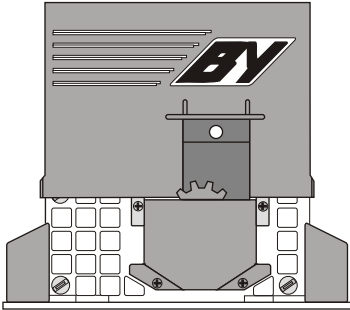


BY MOTORS

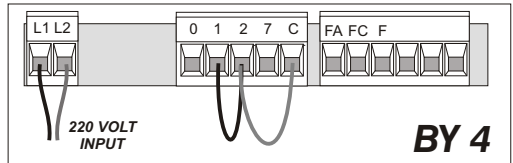
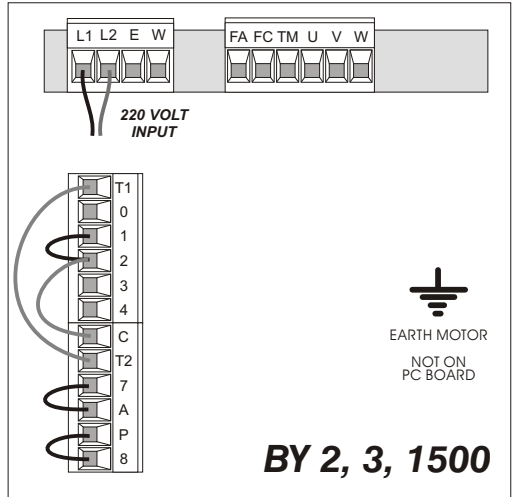
*This feature
is not available
on old BY
motor series*



SLIDE SERIES BY



| | |
|--|---|
| 1 | ELECTRONIC CLUTCH 1 LOW SETTING 5 HIGH SETTING |
| 2 | AUTO CLOSE TIMER (ADJUSTABLE 3 TO 90 SECONDS) |
| 3 | LIGHT PRE FLASH TIMER (DELAYS GATE MOTION) |
| 4 | PLUG IN RECEIVER |
| 5 | SW1 OBSTACLE SENSOR (ONLY AVAILABLE ON MODEL BY 3) |
| 6 | SW2 OBSTACLE SENSOR SENSITIVITY (ONLY AVAILABLE ON MODEL BY 3) |
| SW1 CONTROLS GATE CONDITION WHEN AN OBSTACLE IS DETECTED | |
| | DURING OPENING NO RESPONSE DURING CLOSING THE GATE RE OPENS |
| | DURING OPENING THE GATE STOPS DURING CLOSING THE GATE RE OPENS |
| | DURING OPENING THE GATE STOPS DURING CLOSING NO RESPONSE |
| | DURING OPENING NO RESPONSE DURING CLOSING NO RESPONSE |



| | |
|----------------|--|
| T1 + T2 | INSERT LINK FOR AUTO CLOSE (OPTIONAL) |
| 1 + 2 | INSERT LINK FOR TOTAL STOP (LINK MUST BE INSERTED) |
| 2 + C | INSERT LINK IF BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 7 + A | INSERT LINK IF PLUG IN RECIEVER IS USED (OPTIONAL) |
| P + 8 | INSERT LINK IF PARTIAL STOP BEAMS ARE NOT USED (LINK MUST BE INSERTED) |
| 2 + 7 | TRIGGER TO OPERATE MOTOR (NO VOLTAGE CONTACT) |
| 0 + 1 | 24 VOLT AC OUTPUT FOR AUXILIARY SERVICES |

IMPORTANT: TO ENSURE OPERATION ENGAGE THE MOTORS CLUTCH AND LOCK DOOR



SERVICE TIPS

- A) *The motor is not supposed to trigger on its own when switched on, unless the trigger wires or the receiver is causing a permanent short on the points **2 and 7** (open/stop/close) **2 and 3** (open only) **2 and 4** (close only) **2 and 3P** (pedestrian opening)*

*NB. Use **Common** and **Normally Open** contact only.*

- B) *When identifying a fault on a motor installation. Always remove everything connected to the motor, for example receivers, beams, push buttons, loop detectors and any type of readers. Keep it simple and trigger with a wire on 2 and 7.*

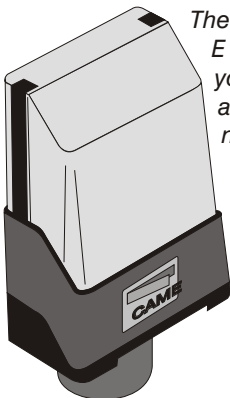
- C) *Do not assume that a fuse is working just by looking at it. Always use a multi meter to test the fuse as sometimes the break is not in the middle but at the end were you cannot see it.*

- D) *The limit switches are an integral part of the instillation in a center position they should be in a **Normally Closed** state. Make a point to check them when the motor is not responding or running in one direction.*

- D) *After an installation always allow about time for the motor to cool down before you hand the job over. It is embarrassing if demonstrate the motor, and the thermal switch kicks in due to overheating.*

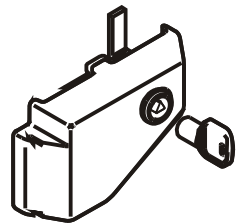
- E) *Power to the motor is supplied via the transformer. Set the torque as low as you can for light gates.*

NB. *Low torque results in higher duty cycle
Higher torque results in low duty cycle*



The flashing light is connected on E and W For a 220V AC motor you need a KIARO 220. and for a 24VDC motor you need a KIARO 24

If you connect a courtesy light the output is limited to 60W on 220VAC



To ensure operation engage the motors clutch and lock the door. A micro switch disables the limit switches, which stops the motor from moving.