

△ Before installing the control board and making the electrical connections, including fitting the snap-in (AF, R700, etc.), IT IS OBLIGATORY TO CUT OFF THE MAINS POWER, and, disconnect any batteries.

For a more detailed description of the electrical connections and of the functions, see the corresponding manual on <http://docs.came.com>.

Description

Spare ZBX7N, ZBX74/78 and ZBX-7 cards.

Connections

- L Power-supply at 230 V AC
- N
- 10 24 V AC - 20 W max output
- 11
- U
- V 230 V AC gearmotor
- W
- F Opening limit switch (NC contact)
- FA
- F Closing limit switch (NC contact)
- FC
- 10 24 V output for connecting safety photocells
- TS
- W Flashing light/Cycle light 230 V AC - 60 W max (see F18)
- E1
- 11 Gate-closed warning light 24 V AC - 3 W max
- FA
- 11 Gate-open warning light 24 V AC - 3 W max
- FC
- 1 STOP button (NC contact) (F1)
- 2
- 2 Partial opening button (NO contact) (F8)
- 3P
- 2 OPEN-CLOSE-INVERT button (NO contact) (F7)
- 7
- A Keypad selector (R800 interface required)
- B
- S1 Sensor connection output (TST01 or LT001) (R700 interface required)
- GND
- 2 Programmable photocells connection (NC contact) (F2)
- CX
- 2 Programmable photocells connection (NC contact) (F3)
- CY
- A RS485 serial connection with RSE card via CRP (Came Remote Protocol) or paired connection
- B
- GND
- Connection for RGP1
- STB
- +
- Y Antenna
- 1

Functions programming

- F 1 Total stop function (1-2) ➔ (OFF (default) / ON)
 - F 2 Function associated with the input 2-CX ➔ (OFF (default) / 1=C1 / 2=C2 / 3=C3 / 4=C4 / 7=C7 / 8=C8 / r7=r7 / r8=r8)
 - F 3 Function associated with the input 2-CY ➔ (OFF (default) / 1=C1 / 2=C2 / 3=C3 / 4=C4 / 7=C7 / 8=C8 / r7=r7 / r8=r8)
 - F 5 Safety test function ➔ (OFF (default) / 1=CX / 2=CY / 4=CX+CY)
 - F 6 Hold-to-run action function ➔ (OFF (default) / ON)
 - F 7 Command mode on 2-7 ➔ (0=step-step 1=sequential 2=open 3=close)
 - F 8 Command mode on 2-3P ➔ (1 = partial opening / 2 = total opening)
 - F 9 Obstruction detection with motor idle function ➔ (OFF (default) / ON)
 - F11 Encoder ➔ (OFF / ON (default))
- △ If the stroke calibration is not carried out

or the encoder is not excluded, the motor does not start

- F14 Sensor type selection function ➔ (0=transponder or card reader R700 / 1=keypad selector R800)
- F18 Additional lamp function ➔ (OFF=flashing light / 1=cycle light)
- F19 Automatic closing time ➔ (OFF (default) / 1=1 sec. > 180=180 sec.)
- F20 Automatic closing time after partial opening ➔ (OFF / 1 = 1 sec. / 10 = 10 sec. (default) / 180 = 180 sec.)
- F21 Pre-flashing time ➔ (OFF (default) / 1=1 sec. / 10=10 sec.)
- F30 Slowing in opening and closing ➔ (OFF (default) / 1=High / 2=Medium / 3=Low)
- F34 Stroke sensitivity ➔ (10 = maximum sensitivity > 100 = minimum sensitivity (default))
- F35 Slowing sensitivity ➔ (10 = maximum sensitivity > 100 = minimum sensitivity (default))
- F36 Partial opening adjustment ➔ (10=10% of the stroke > 80=80% of the stroke (default))
- F37 Opening slow down point ➔ (5=5% of the stroke / 15=15% of the stroke (default) / 30=30% of the stroke)
- F38 Closing slow down point ➔ (5=5% of the stroke / 15=15% of the stroke (default) / 30=30% of the stroke)
- F48 Maneuver start activation ➔ (OFF (default) / ON)
- F49 Serial connection management ➔ (OFF (default) / 1=Paired / 3=CRP). If paired, activate only on MASTER
- F50 Saving data in the memory roll (the function only appears when the card is fitted) ➔ (OFF (default) / ON)
- F51 Reading data in the memory roll (the function only appears when the card is fitted) ➔ (OFF (default) / ON)
- F52 Passing parameter in paired mode ➔ (OFF (default) / ON)
- F54 Opening direction ➔ 0 = opening towards the LH - 1 = opening towards the RH
- F56 Peripheral number ➔ (1 > 255)
- F63 Speed change COM ➔ (0=1200 Baud / 1=2400 Baud / 2=4800 Baud / 3=9600 Baud / 4=14400 Baud / 5=19200 Baud / 6=38400 Baud / 7=57600 Baud / 8=115200 Baud)
- F65 Function associated with the input RIOED8WS [T1] (only with RIOCN8WS fitted) ➔ (OFF (default) / P0 / P7 / P8)
- F66 Function associated with the input RIOED8WS [T2] (only with RIOCN8WS fitted) ➔ (OFF (default) / P0 / P7 / P8)
- F67 Function associated with the input RIOPH8WS [T1] (only with RIOCN8WS fitted) ➔ (OFF (default) / P1 / P2 / P3 / P4)
- F68 Function associated with the input RIOPH8WS [T2] (only with RIOCN8WS fitted) ➔ (OFF (default) / P1 / P2 / P3 / P4)
- F71 Partial opening time ➔ (5 = 5 sec. (default) / 40 = 40 sec.)
- U 1 New user entry with associated command ➔ (1 = Step-step command (open-close) / 2 = Sequential command (open-stop-close-stop) / 3 = Only open command / 4 = Partial command)
- U 2 Deleting single users
- U 3 Total users deleting ➔ (OFF (default) / ON =

Deleting all users)

- U 4 Code decoding ➔ (1= all series (default) / 2 = only Atomo series / 3 = only TWIN-EE series (in this mode you can save only one user)
- A 1 Motor type ➔ (1=BX-74 (default) / 2=BX-78)
- A 3 Stroke calibration ➔ (OFF (default) / ON)
- A 4 Parameters reset ➔ (OFF (default) / ON)
- A 5 Maneuvers counting ➔ (Number of maneuvers / 001=100 maneuvers / 010=1000 maneuvers / 100=10000 maneuvers / 999=99900 maneuvers / CSI=maintenance job)
- H 1 Software version

△ The < (OPEN), > (CLOSE) and ESC (STOP) buttons are ALWAYS ACTIVE (only in MASTER mode).

Error messages

The error messages appear on the display.

E 1	Calibration error.
E 2	Adjustment error.
E 3	Encoder is broken.
E 4	Safety test error.
E 7	Insufficient working time.
E 8	Release hatch open / check accessories fuses
E 9	Closing obstruction.
E 10	Opening obstruction.
E 11	Maximum number of obstructions detected.
E 14	Serial communication error
E 15	Incompatible transmitter error.
E 17	Wireless system error.
E 18	Missing wireless system configuration
CO	STOP (1-2) open

Decommissioning and disposal. - The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste. The product components (metals, control boards, batteries, etc.) must be separated from other waste for recycling. Check your local laws to properly dispose of the materials.

Do not dispose of in nature!
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