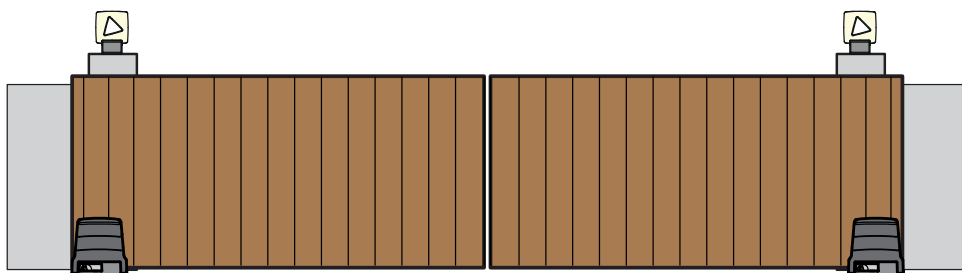


RS485
<----->
n7=13



IS305 Rev.00 19/03/2026

MASTER/SLAVE per B70/1DCHP - B70/1DC

Istruzioni originali

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IT - Istruzioni ed avvertenze per l'installatore

EN - Instructions and warnings for the installer

DE - Anweisungen und Hinweise für den Installateur

FR - Instructions et consignes pour l'installateur

ES - Instrucciones y advertencias para el instalador

PT - Instruções e advertências para o instalador

NLD - Aanwijzingen en waarschuwingen voor de installateur

PL - Instrukcja i ostrzeżenia dla instalatora

 **ROGER**
TECHNOLOGY

FW
P3.00

1

Diagram illustrating the wiring for the lighting system (Slave unit).

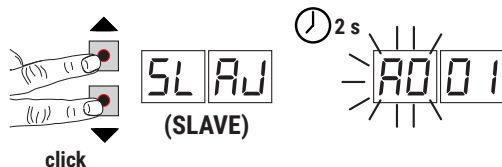
The diagram shows a power supply (COR) connected to a fuse (FUSE max 1A) and a switch (Spia cancello aperto / Open gate light). The switch is controlled by a 'STOP (MASTER + SLAVE)' button. The switch is connected to a 24VDC 3W light source. The wiring is color-coded: red for power, blue for ground, and green for signal. The diagram also shows a 'Luce di cortesia / Courtesy light' and a '230V ~ 100W' rating.

Labels in the diagram include:

- COR
- Luce di cortesia / Courtesy light
- 230V ~ 100W
- FUSE max 1A
- Spia cancello aperto / Open gate light
- 24VDC 3W
- STOP (MASTER + SLAVE)
- COM
- LNA
- LNB
- FT2
- FT1
- COS2
- COS1
- COM
- ST

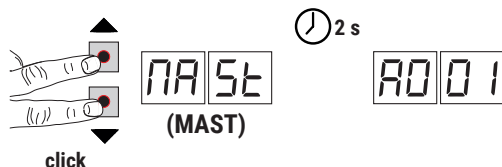
2a

MASTER configurata per agire in remoto
MASTER configured to operate remotely

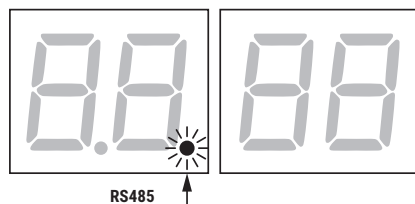


2b

MASTER configurata per agire in locale
MASTER configured to operate locally



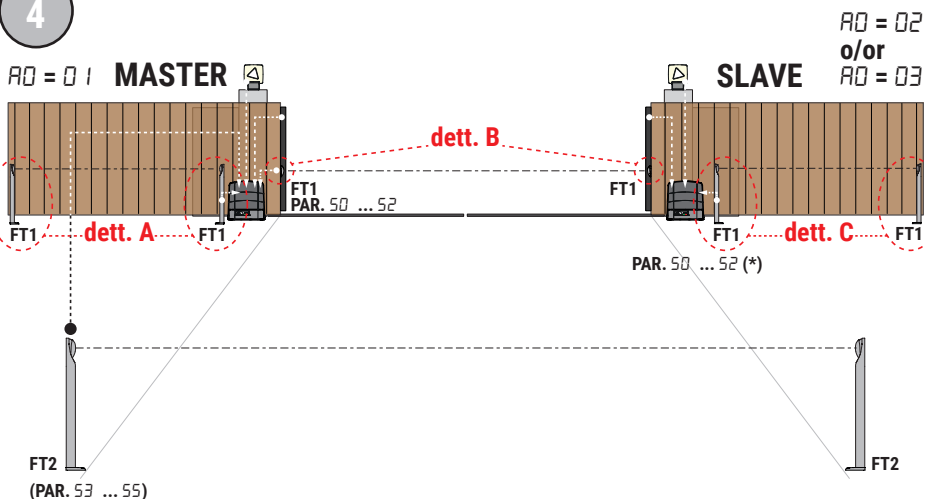
3



Si accende in presenza di connessione
RS485 MASTER/SLAVE

lights up in the presence of MASTER/SLAVE
RS485 connection

4



(*) se queste sono collegate alla MASTER, disabilitarle su centrale SLAVE
 if these are connected to the MASTER, disable them on the SLAVE control unit

Description

For installations of **two opposite gates**, each controlled by an automation, control and safety functions may be centralized on the **MASTER** control unit (by connecting all controls and safety devices to it) and use a single slot-in receiver inserted in the **MASTER** control unit for remote activation.

All configuration, travel programming and operating parameter analysis operations for both control units can be carried out from the **MASTER** control unit (REMOTE SHARING mode).

For ease of installation, the photocells that protect the blind side of the SLAVE automation (fig. 4, detail C) can be connected directly to the SLAVE control unit (and not to the MASTER), enabling their use with the relevant parameters of the SLAVE control unit.

ATTENTION! However, a similar setting must be made on the MASTER control unit, connecting the photocells that protect its blind side (fig. 4, detail A) to the same input (FT1 or FT2) used for the SLAVE.

Connect the photocells that protect the passage (fig. 4, detail B) to the MASTER control unit.

The following must be connected to the SLAVE control unit:

- the SLAVE automation flashing light
- the SLAVE automation sensitive edges

NOTE: the MASTER-SLAVE function is available on B70/1DC control units (for BH30-BM30 automations) and on B70/1DCHP control units (for BG30 automations) starting from FW version P3.00.

If you have an automation system with firmware version P2.30 or P2.35 and you want to activate MASTER/SLAVE mode, you can perform the update via B74/BCONNECT, after which you must ensure that the parameters $L0=0$ and $L1=00$.

Ensure that parameters 60, 88 and 89 are set to 00 and that parameter A0 is set as shown in the table in chapter 3.



For further information, see the control unit manual (updated to FW version P3.00).

Pairing options between control units

MASTER/SLAVE communication management in version $\alpha 7 = 13$ has been designed to allow:

- the combination of automations belonging to the same series, e.g.: a BG30 with another BG30, even with a different automation model, as long as the control unit FW version is the same or compatible
- the combination of two different types of automation, for example: a BG30 with a BH30, provided that they have identical or compatible FW versions; in this case:
 - since they have parameters with potentially different meaning, it is only possible to configure the SLAVE with par. $A0=03$, and therefore to set the configuration parameters directly on the SLAVE
 - it is not possible to edit the parameters or read INFO parameters in REMOTE SHARING mode (see chapter 5)

Additional parameters

$A0\ 00$	Enable RS485 serial communication (MASTER-SLAVE)
00	Standard operation (no MASTER/SLAVE): single automation installation
01	MASTER/SLAVE mode enabled: the control unit acts as MASTER unit
02	MASTER/SLAVE mode enabled: the control unit acts as SLAVE unit, with a copy of the parameters set on the MASTER unit ("mirroring" the parameters) ATTENTION! Setting value 02 on the SLAVE forces the MASTER parameters to be copied to the SLAVE, with the following exceptions: - par. $A0$ is not changed - par. $50...55$ are set to disable the photocells on the SLAVE control unit: this is the case when all photocells are connected to the MASTER control unit. If some photocells are connected to the SLAVE unit instead (to make the installation simpler, e.g. those covering the blind side of the SLAVE automation movement), they must be enabled also on the SLAVE unit (see Chapters 4 and 5) - par. 71 is set to the value opposite to that of the MASTER unit Each subsequent change made to the MASTER parameters is also performed simultaneously on the SLAVE unit (*)
03	MASTER/SLAVE mode enabled: the control unit acts as SLAVE unit, with parameters completely independent of the MASTER unit; therefore, the parameters must be set on the SLAVE unit as well

(*) Some parameters may be edited manually also from the SLAVE control unit. This occurs because the two automations can have different characteristics, and therefore require different adjustments (forces, acceleration, deceleration, speed), or they could/could not be equipped with locally connected safety devices (e.g.: the sensing edge

on the SLAVE automation, which is logically connected to the SLAVE control unit for ease of installation). These parameters are: 11, 12, 20, 30, 31, 33, 34, 40, 41, 42, 50...55, 71, 73, 74

ATTENTION!

- If a safety device connected to the MASTER control unit trips, this causes the same reaction also on the SLAVE automation
- If a safety device connected to the SLAVE control unit (if enabled by set-up on the SLAVE parameters) trips, this causes the same reaction also on the MASTER automation
- Unlocking one automation only causes it to lose its position, with the other maintaining a normal behaviour; unlocking the MASTER automation keeps the SLAVE automation blocked, but the opposite is not true (by unlocking the SLAVE, the MASTER continues to work, as long as the SLAVE does not have photocells connected and enabled)
- Activation of the MASTER control unit STOP (ST) also blocks the SLAVE, while the activation of the SLAVE control unit STOP only blocks the SLAVE (and the MASTER can continue to operate); If the STOP is not a push-button, once the STOP is released, if the MASTER is driving the motor, the SLAVE will also activate its motor again, following the MASTER unit's movement
- The PED control only activates the MASTER automation (based on par. 15 settings)
- Automatic closing, if enabled, is counted only from the moment when both automations have reached the complete opening position
- The MASTER/SLAVE control system involves synchronising the two doors so that the SLAVE door always performs the action that the MASTER is currently carrying out, correcting its own action autonomously if necessary
- It is therefore not possible to operate a MASTER/SLAVE installation in manual mode

88 00	Cyclical activation (test mode) The automation system is activated in opening mode at intervals defined by the parameter; automatic closing must be selected (par. R2 and par. 21).
00	Disabled.
0 1-90	Opening command activated every 1" ... 90" NOTE: While the cyclical activation command concerns the opening movement, it is controlled so as to allow a complete opening-pause-closing cycle before starting again; consequently, if the time set in par. 88 is less than the time to complete the cycle, the control unit waits for the complete closure, and from that moment, it gives another opening command, after a time equivalent to the parameter value E.g. opening time = closing time = 15"; pause time = 2" By setting par. 88=33 it starts a complete cycle every 33" By setting par. 88=15 it completes a cycle, remains completely closed for 15" and then starts over, so it starts a complete cycle every 32" + 15" = 47"
9 1-99	Opening command activated every 1min ... 9 min.

89 00	Enable parameter management on SLAVE with B74/BCONNECT By inserting a B74/BCONNECT on the MASTER control unit, it is possible to use the parameters consultation, editing and backup menus also for the SLAVE control unit.
00	Disabled.
0 1	on the MASTER control unit (also set via B-CONNECT) allows: - displaying the parameters and editing the individual SLAVE parameters - saving the backup of the parameters taken from the SLAVE control unit to B-CONNECT

4 Editing the SLAVE parameters manually on the MASTER control unit

There are two ways to do this:

1. By setting the SLAVE control unit with par. R0=02, so that each setting made on the MASTER unit is also made on the SLAVE unit (except when par. 71 is set on the SLAVE, the opposite value is set on the MASTER, in an opposing automation system logic; if they are not opposed, it is still possible to change par. 71 directly on the SLAVE)
 - This operating mode comes in handy during the first installation phase, to set the general functions of the two automations in an identical way; then, at a later time, it is advisable to set the SLAVE par. R0=03 so that any changes subsequently made on the MASTER are not made, due to distraction, also on the SLAVE, and avoid confusion

ATTENTION! If MASTER parameter changes are made with the SLAVE control unit switched off or disconnected, those changes are not transferred to the SLAVE

2. Activate the REMOTE SHARING mode (chapter 5), so that the operations performed on the MASTER are actually transmitted and performed only on the SLAVE (even if par. R0=03 on the SLAVE)

5 REMOTE SHARING mode: setting SLAVE parameters manually on MASTER

It can be activated on the MASTER control unit by briefly pressing the ▲ (UP) and ▼ (DOWN) keys together:

- "SLAV" (fig. 2a) appears on the display for two seconds, to indicate that the remote connection with the SLAVE has been activated
- in the parameters menu, the name of the parameter (the leftmost two digits) flashes, highlighting the chosen destination change

The parameter is changed as usual, but the value is saved (usually highlighted by the entire display flashing) on the SLAVE control unit (value also displayed on the SLAVE display).

At the end of the settings, briefly press the UP and DOWN keys together to deactivate the remote parameter sharing mode ("MAST" is displayed for two seconds, fig. 2b) and go back to the normal MASTER operation.

ATTENTION! It is advisable to deactivate this mode when it is no longer necessary. Alternatively, after 5 minutes with no parameter being edited, the MASTER control unit automatically deactivates the remote sharing mode.

6 TEST mode

The controls (AP, CH, PE, ...) are displayed only on the MASTER control unit, since they are connected and managed only by it.

The safety devices in alarm mode are displayed (both on the MASTER display and on the SLAVE display) with the number of the terminal to which they are connected:

- "local" security devices (e.g.: connected on the MASTER and you are reading the MASTER display) are displayed as usual;
- While "remote" security devices (connected to the SLAVE and enabled with the relative SLAVE parameter) are displayed with the decimal points on.

If the RS485 communication between the two control units is missing, "nŁ" (No Communication) is displayed.

7 Reading INFO parameters

When entering the INFO mode, press and hold the MASTER control unit TEST key for 4 seconds, to display the MASTER INFO parameters first.

By activating the remote sharing mode through the same steps described in Chapter 5 ("SLAV" displayed for two seconds, fig.2a), you can read the operating parameters (INFO) of the SLAVE control unit on the MASTER control unit. To switch from the SLAVE INFO to the MASTER INFO, press the ▲ (UP) and ▼ (DOWN) keys together (fig.2b).

NOTE: the SLAVE INFO parameters can be recognized because their name has the decimal points switched ON, and data is displayed for much longer than that of the MASTER.

Besides the INFO parameters listed in the control unit instructions, the following are also displayed:

Parameter	Function
MSŁA	MASTER control unit status (only for technical support, displayed only on MASTER control unit)
SLŁA	SLAVE control unit status (only for technical support, displayed only on MASTER control unit)
ErrŁ	displays the number of RS485 communication interruptions
ErrŁ	displays the number of RS485 communication errors encountered (critical wiring index, too long or passing near cables that carry current to switching loads)

The ErrŁ and ErrŁ values are reset when the control unit is switched ON (they are not stored in the memory). They can also be manually reset - when displayed - by pressing the ▼ (DOWN) key.

8 Reading the system meters

By activating the REMOTE SHARING mode, the aŁ, aŁ, a Ł, HŁ, H Ł, dŁ, d Ł meters of the SLAVE control unit can also be displayed on the MASTER control unit display.

Again, to highlight that this is "remote" data, the name of the counter flashes.

9 Programming the SLAVE travel from the MASTER control unit

The SLAVE automation stroke must be programmed separately from the MASTER automation stroke.

There are two ways to do this:

- programme directly on the SLAVE control unit (in exactly the same way as for the MASTER control unit)
- perform the programming by acting on the MASTER control unit, after activating the remote sharing mode on it; in this case, the only operations to be performed on the SLAVE automation are those of activating the release lever when required

To program by acting on the MASTER control unit, proceed as follows:

NOTE: the messages displayed on the MASTER control unit are equivalent to those provided for the automation programming (*APP-*, *PHAS*, *noPH*, *Auto*, *APP.L*) described in the control unit manual, but since they concern the SLAVE automation (remote), they have an "r" in front.

1. Bring the SLAVE automation fully closed
2. Activate the remote sharing mode, by briefly pressing the UP and DOWN keys together: the MASTER display shows "SLAV" (fig. 2a)
3. Enter the programming mode by holding the PROG key of the MASTER control unit for 4 seconds
4. For automations with limit switches: if the SLAVE automation is not fully closed (closing limit switch not activated):
 - a. on the MASTER display: "*rAPL*"
 - b. on the SLAVE display: "*APP.L*"
5. If the SLAVE automation is completely closed, the word "rAPP" is displayed on the MASTER (and the word "*APP-*" on the SLAVE display)
6. Continue by unlocking the SLAVE automation:
 - a. on the MASTER display: "*rPHR*"
 - b. on the SLAVE display: "*PHAS*"
7. If the procedure fails:
 - a. on the MASTER display: "*rnoP*"
 - b. on the SLAVE display: "*noPh*"
8. If the timing procedure is successful, the display flashes quickly: close the SLAVE automation release handle and turn the key; the SLAVE automation starts opening:
 - a. on the MASTER display: "*rAut*"
 - b. on the SLAVE display: "*Auto*"
9. Once fully opened, the display flashes for two seconds and the closing starts
10. When the SLAVE automation is fully closed, if the programming is successful:
 - a. on the MASTER display: "*rdon*"
 - b. on the SLAVE display: the inputs/safety devices status is shown once again
11. If the programming has not been completed successfully:
 - a. on the MASTER display: "*rAPE*", or "*rAPL*", or "*rAPP*", or "*rAPS*"
 - b. on the SLAVE display: "*APP.E*", or "*APP.L*", or "*APP.IT*", or "*APP.S*"

NOTE: If the procedure halts and an error is displayed, press the TEST key or the STOP control to exit the mode, and then perform the procedure again starting from step 1.



For more accurate details, refer to the control unit manual.

10 Password protection

Parameter changes can be blocked by saving a password. The password must be saved on the MASTER control unit (the SLAVE does not display the values *P 1...P4*).

If the protection is activated, it is also active for the SLAVE control unit; if it is unlocked, it is also unlocked for the SLAVE control unit.

11 Using B74/BCONNECT

The B74/BCONNECT inserted on the MASTER control unit is fully functional on the MASTER control unit, while for the SLAVE control unit:

- it does not allow to reset the unit to factory parameters, or the recovery of the backup from B-CONNECT
- it does not allow you to view the INFO parameters of the SLAVE control unit or the status and position of the gate; as a result, only the position of the gate controlled by the MASTER control unit is shown
- it does not allow to display the SLAVE control unit alarms
- it does not allow updating the firmware of the SLAVE control unit

NOTE: to obtain these functions, you must also insert a B-CONNECT on the SLAVE CONTROL UNIT and connect to it.

When par.89=01 on the MASTER control unit (which can obviously also be set via B-CONNECT, FUNCTIONALITY MANAGEMENT category), it allows:

- displaying the parameters and editing the individual SLAVE parameters
- saving the backup of the parameters taken from the SLAVE control unit to B-CONNECT

NOTE: After performing these operations, remember to set par.89=00 again, thus leaving all the functions of the B-CONNECT referred to the MASTER control unit.

12 Signals displayed and alarms

When switched on, the MASTER control unit starts an enquiry phase on the RS485 line to identify the SLAVE control unit connected to it.

In this phase, which normally lasts about 2 seconds, "SEARCH" is displayed on the MASTER unit, alternated with COM1 until the connection is stabilized.

In this phase, if the SLAVE is set with par.80=02 ("mirroring" the parameters), the MASTER control unit forces its parameters on the SLAVE (with the exceptions indicated in section 3)

COM1: absence of communication between MASTER control unit and SLAVE control unit: if the automations were in motion, they are stopped and remain in the STOPPED state; if the absence of communication lasts a few seconds, when the communication is restored, the automations automatically resume the movement.

NOTE: the presence of communication is highlighted on the display, when the control unit is in control/safety display mode, by turning on the decimal point of the second digit from the left (fig. 3). The absence of communication, in addition to turning off this section, also turns off the SE control section (since the absence of communication forces it to STOP). When entering TEST mode, "NC" will be displayed (No Communication)

COM2: incorrect setting of par.80, the control unit has been set as MASTER but it should be SLAVE (the control unit of the opposite automation is already configured as MASTER).

The error is displayed for 5 seconds, then it disappears and par.80, incorrectly set to 01, is forced to 00 by disabling the MASTER-SLAVE mode on the control unit (then, set par.80 to 02 or 03)

COM3: even if the two control units belong to the same model, they do not allow all MASTER-SLAVE control functions: the REMOTE SHARING mode is not available. To solve the issue, update the firmware to the same version. Centralised movement and safety control is enabled.



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