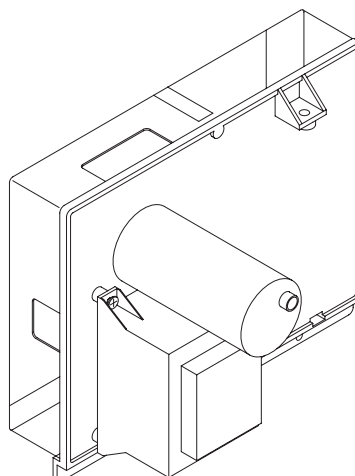


L8542624
Rev. 10/04/05

BENINCA®

CENTRALINA A MICROPROCESSORE PER
CONTROL UNIT WITH MICROCONTROLLER FOR
MIKROCONTROLLER-STEUERUNG FÜR
CENTRALE A MICROCONTRÔLEUR POUR
CENTRALITA A MICROPROCESADOR POR
CENTRALKA Z MIKROPROCESOREM DLA

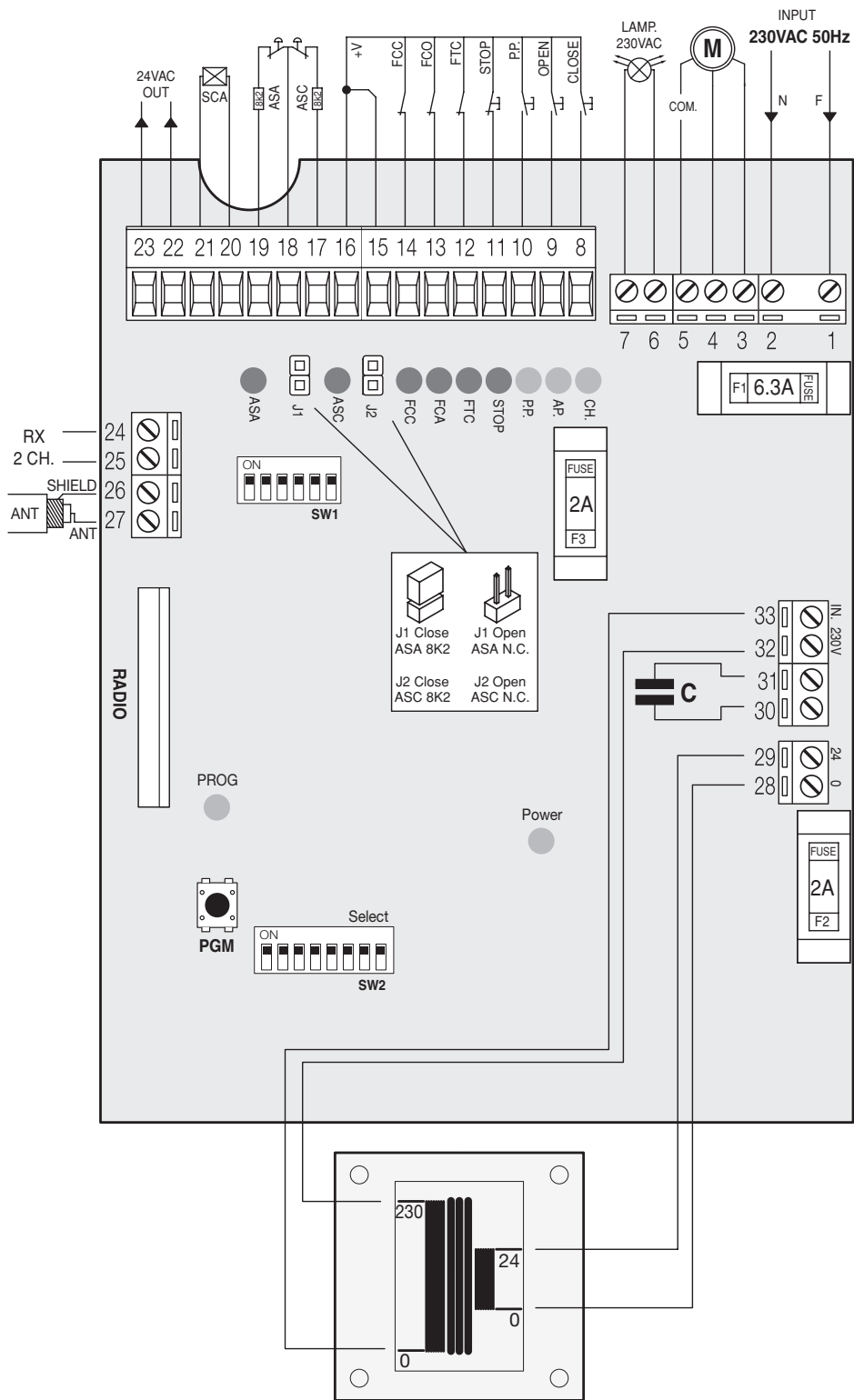
RI.10KI



Libro istruzioni
Operating instructions
Betriebsanleitung
Livret d'instructions
Libro de instrucciones
Książeczka z instrukcjami



UNIONE NAZIONALE COSTRUTTORI
AUTOMATISMI PER CANCELLI, PORTE,
SERRANDE ED AFFINI



RI10KI Control unit with microcontroller

The control unit with microprocessor RI.10KI can be used to control motors featuring a power not exceeding 750W.

GENERAL WARNINGS

- a) The wire connections and the operating logic should be in compliance with regulations in force.
- b) The cables featuring different voltage should be physically detached, or adequately insulated by an additional insulation of at least 1 mm.
- c) The cables should be further fastened in proximity to the terminals.
- d) Check all connections before powering the unit.
- e) Check that settings of the Dip-switches are the required ones.
- f) When the unit is powered, the LED "POWER" must light on. In the negative, check the good condition of fuses and the presence of 230Vac, 50Hz between terminals 1 and 2 (INPUT 230VAC - follow phase/neutral).
- g) All normally closed inputs, which are not in use, should be short-circuited with the relevant Dip-Switch located near the connection terminal of the inputs.
- h) If the rotation direction of the motor is inverted, it is sufficient to invert the wires "APRE" - "CHIUDE" (OPEN - CLOSE) of the motor as well as the limit switches wires "FCA" - "FCC".

Input/Output functions

Terminal No.	Function	Description
(1,2)	Input, 230VAC	Power supply of the control unit 230Vac, 50Hz (Phase: terminal 1, Neutral: terminal 2).
(3,4,5)	Output, Motor	Respectively, Move(3), Move(4) and Common (5).
(6,7)	LAMP	To the flashing light at 230Vac
(8)	CHIUDE	Input, CLOSE push-button Normally Open (N.O.) contact
(9)	APRE	Input, OPEN push-button N.O. contact (it can be switched to "Pedestrian" input)
(10)	P.P.	Input, STEP-BY-STEP push-button
(11)	STOP	Input, STOP push-button Normally closed (N.C.) contact
(12)	FTC	Input, safety devices connection, N.C. terminal (e.g. photocells)
(13)	FCA	Input, opening limit switch. N.C. contact
(14)	FCC	Input, closing limit switch. N.C. contact
(15,16)	+V	Output, common for all inputs
(17)	ASC	Input, safety edge. Its activation causes the movement reversion for 1 second if the motor is in the closing phase*
(18)	Input, common to the safety edges	Input, common of safety edges. The safety edges MUST NOT BE CONNECTED TO THE COMMON OF THE PUSH-BUTTONS
(19)	ASA	Input, safety edge. Its activation causes the movement reversion for 1 second if the motor is in the opening phase*
(20,21)	SCA	Open gate indicator light connection, 24 Vac/3W max.
(22,23)	OUT 24VAC	Output, auxiliary power supply, 24Vac (1A max.)
(24,25)	Output, 2nd channel	N.O. contact, controlled by the second channel of the remote control
(26,27)	Input, antenna	Antenna connection for the receiving card of the remote control. Shield= terminal 26
(28,29)	Input, 24VAC	Connection to the secondary of the transformer, 24V
(30,31)	Capacitor	Connection to the capacitor
(32,33)	Output, 230VAC	Connection to the primary of the transformer, 24V
RTX	Connector to the receiving card of the remote control.	

* **The inputs of the safety edges are at calibrated resistance.**

If a resistive safety edge is used, the relevant jumpers (J2 for ASC and J1 for ASA) should be closed. Conversely, if a mechanical edge is used the jumpers should be left open. In the event the safety edges are not mounted, leave the corresponding jumper open and move the short-circuit Dip-Switch to ON (No. 1 for ASA and no. 2 for ASC).

N.B.: for the safety edge, two inputs are provided, **NEVER CONNECT THE SAFETY EDGE TO THE COMMON TERMINAL.**

CAUTION: When the control unit is powered, do not touch any metallic parts.

Dip-Switch Function - SW2 "Select"

- DSW1** Operating mode of the "P.P. button" and of the remote control.
Off: Open/Stop/Close sequence
On: Open/Close/Open sequence
- DSW2** "Service man" function. The automatic system carries out the opening and closing operations as long as the Open and Close push-buttons, respectively are kept pressed.
Off: Service Man function disabled
On: Service man function enabled. In this case the Open push-button cannot be used as control for pedestrian use.
- DSW3** "Multiple-flat" function: the "P.P." (STEP-BY-STEP) input does not cause the motor stopping in the opening phase. At end of opening, the "P.P." input is enabled for the gate closure.
Off: Multiple-flat function is disabled
On: Multiple-flat function is enabled
- DSW4** "Forewarning" function: the flashing light switches on 3 seconds before the beginning of every movement.
Off: Forewarning flashing light is disabled
On: Forewarning flashing light is enabled
- DSW5** Photocell activation during the opening phase. If the photocell beam is obscured, the motor stops. The movement starts after 1 second from the photocell reset.
Off: No activation
On: Temporary stop
- DSW6** "Pedestrian" function: the "Open" input controls the temporary opening (adjustable from about 1.5 to 10 metres).
Off: Operation as "Open Push-button"
On: Operation as "Pedestrian push-button"
- DSW7** Enables or disables electronic braking. The activation of electronic braking allows the reduction of the gate inertia and therefore of the stopping space.
Off: Electronic braking disabled
On: Electronic braking enabled
- DSW8** Automatic closure.
Off: Automatic closure disabled
On: Automatic closure enabled

The selections which are preset with the Dip-Switches are memorized in the Stop phase. If a variation to the configuration of the Dip-Switches is carried out, the control unit operation is modified after the following stop.

Dip-Switch SW1 "Bypass" Function

The Dip-Switches "Bypass" allow to short-circuit the normally closed inputs that are not in use.

- DSW1** Input ASA
Off= Enabled input
On= Disabled input (leave the gate open).
- DSW2** Input ASC
Off= Enabled input
On= Disabled input (leave the gate open).

- DSW3** Input FCC
Off= Enabled input
On= Disabled input.
- DSW4** Input FCA
Off= Enabled input
On= Disabled input.
- DSW5** Input FTC
Off= Enabled input
On= Disabled input.
- DSW6** Input STOP
Off= Enabled input
On= Disabled input.

Programmable functions

The RI.10KI control unit is equipped with connector to communicate with the programming display. If the display is not used, the control unit can be programmed as follows:

The functions for which it is possible to choose between a range of values can be preset by using the programming push-button (PGM) together with the Dip-switches. The fixed values are indicated with "(def.)".

To store the programmable functions in memory, move the Dip-switches as shown in the table, then press the push-button PGM for at least 2 seconds. The light of the "PGM" LED, which normally flashes, will be steady. When the LED switches off, then the programming has been successfully carried out. At this point, the push-button can be released and the LED start flashing.

At completion of the programming procedure, move the Dip-switches to the normal positions.

This control unit performs the power circuit integrity test automatically. Should a fault be detected, the unit stops and indicates the fault through two blinks of the PGM led in rapid succession. The triggering of the thermal switch is considered a fault in the power circuit, and once the thermal protection is reset, the control unit restarts automatically. If the control unit keeps on indicating a faulty operation, even when the motor has cooled down, try to momentarily switch power off.

Checking the integrity of the power circuit

The control unit has the possibility of checking the integrity of the power circuit (TRIAC).

According to the factory setting, this function is disabled.

To check:




- Set the Dip-switches 1=ON and 8=ON
- Press PGM, the LED blinks twice briefly, then goes out.



With the control activated, in the event of a fault in the power circuit or of tripping of the protection, the control unit does not perform any kind of command.

To deactivate checking:

- Set the Dip-switches 1=ON and 8=OFF
- Press PGM until the blinking LED goes out.

With the control deactivated, even in the event of a malfunction in the power circuit the control unit still performs the command.

Function	Options																																																																																					
<p>Dwell time for the automatic closure.</p> <p>Dip-switch 1÷4= On/On/Off/Off</p>  <p>The dwell time is reset when the input FTC contact is opened or the Open input contact stays open.</p>	<table border="1"> <thead> <tr> <th>Dsw5</th> <th>Dsw6</th> <th>Dsw7</th> <th>Dsw8</th> <th>Seconds</th> </tr> </thead> <tbody> <tr><td>Off</td><td>Off</td><td>Off</td><td>Off</td><td>5</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>Off</td><td>10</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>Off</td><td>15</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>Off</td><td>20</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>Off</td><td>30</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>Off</td><td>40</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>Off</td><td>50</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>Off</td><td>60 (def.)</td></tr> <tr><td>Off</td><td>Off</td><td>Off</td><td>On</td><td>80</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>On</td><td>100</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>On</td><td>120</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>On</td><td>140</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>On</td><td>160</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>On</td><td>180</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>On</td><td>200</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>On</td><td>220</td></tr> </tbody> </table>	Dsw5	Dsw6	Dsw7	Dsw8	Seconds	Off	Off	Off	Off	5	On	Off	Off	Off	10	Off	On	Off	Off	15	On	On	Off	Off	20	Off	Off	On	Off	30	On	Off	On	Off	40	Off	On	On	Off	50	On	On	On	Off	60 (def.)	Off	Off	Off	On	80	On	Off	Off	On	100	Off	On	Off	On	120	On	On	Off	On	140	Off	Off	On	On	160	On	Off	On	On	180	Off	On	On	On	200	On	On	On	On	220
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Programmable functions. Dip-switch 1+4= Off/On/Off/Off 	<p>DSW5 On= In case of failure of the protection devices, the system switches automatically to "Service Man" operating mode after pressing the push-button for 2 seconds. Off= In case of failure of the protection devices, the system cannot be activated even after pressing the push-button (def.).</p> <p>DSW6 On= Slow down enabled. About 7 seconds before the end of the operating time, the control unit sends a slow down control signal. Off= Slow down disabled (def.).</p> <p>DSW7= Off</p> <p>DSW8= Off</p>																																																																																																																																																																																																						
<p>The work time is regulated with the following menu, after the motor has been started from the limit switch; 7 seconds before the set time has elapsed the control unit starts slowing down (if this has been selected). If the work time is modified before you have been able to see the correct operation of the control unit, you must make it perform a complete manoeuvre (that is with arrival on a limit switch and restarting from the same point). The intervention of the protection edges deactivates slowing down until the first subsequent complete manoeuvre (that is with arrival on a limit switch and restarting from the same point).</p>																																																																																																																																																																																																							
Operating time. Dip-switch 1+3= Off/Off/On 	<table border="1"> <thead> <tr> <th>Dsw4</th> <th>Dsw5</th> <th>Dsw6</th> <th>Dsw7</th> <th>Dsw8</th> <th>Seconds</th> </tr> </thead> <tbody> <tr><td>Off</td><td>Off</td><td>Off</td><td>Off</td><td>Off</td><td>15</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>Off</td><td>Off</td><td>18</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>Off</td><td>Off</td><td>21</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>Off</td><td>Off</td><td>24</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>Off</td><td>Off</td><td>27</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>Off</td><td>Off</td><td>30</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>Off</td><td>Off</td><td>33</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>Off</td><td>Off</td><td>36</td></tr> <tr><td>Off</td><td>Off</td><td>Off</td><td>On</td><td>Off</td><td>39</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>On</td><td>Off</td><td>42</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>On</td><td>Off</td><td>45</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>On</td><td>Off</td><td>48</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>On</td><td>Off</td><td>51</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>On</td><td>Off</td><td>54</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>On</td><td>Off</td><td>57 (def.)</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>On</td><td>Off</td><td>60</td></tr> <tr><td>Off</td><td>Off</td><td>Off</td><td>Off</td><td>On</td><td>63</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>Off</td><td>On</td><td>66</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>Off</td><td>On</td><td>69</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>Off</td><td>On</td><td>72</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>Off</td><td>On</td><td>75</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>Off</td><td>On</td><td>78</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>Off</td><td>On</td><td>81</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>Off</td><td>On</td><td>84</td></tr> <tr><td>Off</td><td>Off</td><td>Off</td><td>On</td><td>On</td><td>87</td></tr> <tr><td>On</td><td>Off</td><td>Off</td><td>On</td><td>On</td><td>90</td></tr> <tr><td>Off</td><td>On</td><td>Off</td><td>On</td><td>On</td><td>93</td></tr> <tr><td>On</td><td>On</td><td>Off</td><td>On</td><td>On</td><td>96</td></tr> <tr><td>Off</td><td>Off</td><td>On</td><td>On</td><td>On</td><td>99</td></tr> <tr><td>On</td><td>Off</td><td>On</td><td>On</td><td>On</td><td>102</td></tr> <tr><td>Off</td><td>On</td><td>On</td><td>On</td><td>On</td><td>105</td></tr> <tr><td>On</td><td>On</td><td>On</td><td>On</td><td>On</td><td>108</td></tr> </tbody> </table>	Dsw4	Dsw5	Dsw6	Dsw7	Dsw8	Seconds	Off	Off	Off	Off	Off	15	On	Off	Off	Off	Off	18	Off	On	Off	Off	Off	21	On	On	Off	Off	Off	24	Off	Off	On	Off	Off	27	On	Off	On	Off	Off	30	Off	On	On	Off	Off	33	On	On	On	Off	Off	36	Off	Off	Off	On	Off	39	On	Off	Off	On	Off	42	Off	On	Off	On	Off	45	On	On	Off	On	Off	48	Off	Off	On	On	Off	51	On	Off	On	On	Off	54	Off	On	On	On	Off	57 (def.)	On	On	On	On	Off	60	Off	Off	Off	Off	On	63	On	Off	Off	Off	On	66	Off	On	Off	Off	On	69	On	On	Off	Off	On	72	Off	Off	On	Off	On	75	On	Off	On	Off	On	78	Off	On	On	Off	On	81	On	On	On	Off	On	84	Off	Off	Off	On	On	87	On	Off	Off	On	On	90	Off	On	Off	On	On	93	On	On	Off	On	On	96	Off	Off	On	On	On	99	On	Off	On	On	On	102	Off	On	On	On	On	105	On	On	On	On	On	108
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