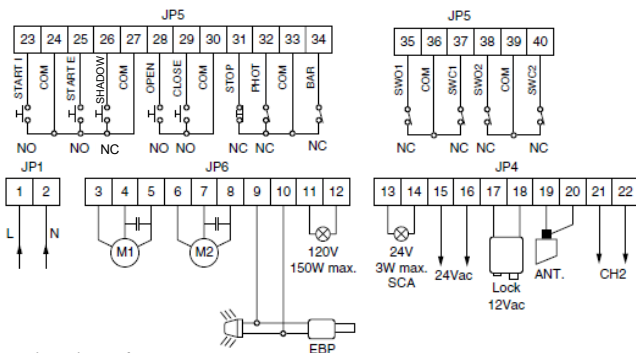


RIGEL 4



Technical specifications

40W max.
 Motor output current 5A max
 Motor relay switching current 15A
 Max. motor power 1 motor 375W,
 2 motors 375W + 375W
 Courtesy light Max 150W time set up to 90 seconds
 from last command
 Power supply for accessories 24V~ (0.5A maximum absorption)
 Electric lock output 12V~ (2A maximum absorption)
 Gate-open warning light 24V~ 3W max
 Blinker 120V~ 40W max

FUSES

F1: High output fuse
F2: X'former fuse
F3: Low output fuse

Functioning logic

The configuration of the control unit Rigel 4 with microprocessor is obtained by means of the Dip-switches.

Dip-switch 1 Photocells (FCH)

ON - Inhibits the operation of the photocell during the opening movement and immediately reverses the movement direction in the closing phase as soon as an obstacle is detected by the photocell.
 OFF - When the photocell detects an obstacle and the gate is closing, the movement of the gate is immediately stopped; as soon as the obstacle has been removed, the gate opens. If an obstacle is detected by the photocell when the gate is opening, it stops immediately; as soon as the obstacle has been removed, the gate completes the opening stroke.

Dip-switch 2 Impulse blocking device (IBL)

ON - The start impulse has no effect on opening.
 OFF - The start impulse on opening causes the stop of the gate (Dip 6 OFF) or the reverse (Dip 6 ON).

Dip-switch 3 Automatic closing (TCA)

ON - Carries out the automatic closing of the gate after a dwell time set on the TCA trimmer. The automatic closing is activated when: the gate reaches the opening end of stroke position, the working time on opening has elapsed, the gate is stopped during the opening phase by a start impulse.
 OFF - Inhibits the automatic closing.

Dip-switch 4 Ram blow (HAMMER)

ON - Before opening the gate, it pushes for about 2 seconds on closing. This permits an easier release of the electric lock.
 OFF - Inhibits the ram blow.

Dip-switch 5 Motor 1 opening delay (DELAY OPEN)

ON - Motor 1 starts with a delay of about 3 seconds on opening.
 OFF - Motor 1 starts with a delay of about 0.5 seconds on opening.

Dip-switch 6 2 or 4-step logic (2P/4P)

ON - When a start impulse is given while the gate is moving, the movement direction will be inverted (2 step logic).
 OFF - When a start impulse is given while the gate is moving, the gate will stop; a subsequent impulse will cause the inversion of the movement direction (4 step logic). Note: the start impulse has no effect when the Dip 2 is OFF during the opening phase.

Dip-switch 7 Shadow loop management:

ON - Shadow contact active when gate both open and closed.
 OFF - Shadow contact active when gate open only..

Dip-switch 8 Block persistence (BLOCK)

ON - If the motors remain still in the complete opening or closing position for more than one hour, they are pushed for about 3 seconds in the end of stroke direction. This function is performed every hour.
 OFF - Inhibits the block persistence function.

Note: In the case of oil-hydraulic motors, this function is used to compensate for any possible oil volume decrease due to a temperature decrease during long pauses (for example during the night) and to keep the grease slightly heated in all the electromechanical actuators for swing gates.

WARNING: Do not use this function for sliding gates or without appropriate mechanical blocks.

Dip-switch 9 Reduced or standard working time range (S.TW)

ON - Working time TW between 1, 40 seconds (TW.PED from 1 to 20 seconds).
 OFF - Working time TW between 30, 180 seconds (TW.PED from 15 to 90 seconds).

Dip-switch 10 Gate-open/close control (U.P)

Operates on the signals connected to the terminals 28-29.
 ON - Hold-to-run operation: the manoeuvre lasts for as long as the control key is pressed.
 OFF - Separate gate-open/close automatic control: one impulse opens the gate if closed and vice versa.

5) Functions controlled by the trimmers

TW.PED Not Used

TW Adjusts the working time both during opening and closing.

TCA Adjusts the dwell time after which the gate re-closes automatically.

T.DELAY Adjusts the delay time on closing of motor 2.

