

1.) Mechanical installation

Enlarge the lock cavity at the top in the area of the connection cable by about 15 mm. Insert free-running cylinder lock to DIN 18252.

NOTE: METAL FILINGS ON THE CONNECTION TERMINALS OF THE GENIUS CAN DESTROY THE INTERNAL ELECTRONICS.

2.) Connections - GENIUS Type B

Connections	Function
A, B, C, D	Connection for infra-red eye, which transmits the signal from outside to the GENIUS
0, 1	External operating mode switching (day/night operation)
2, 3	Operating voltage 24 V DC from NG-55 power supply unit Terminal 2 = + Terminal 3 = -
4	External unlocking signal. If a voltage of +24 V DC is applied to this terminal for approx. 1 sec., the lock will be opened in both operating modes.
7	Lock status displays. The required status is selected by the rotary switch; Open collector = - (max. 20 mA)

3.) Operating mode (Fig. 1):

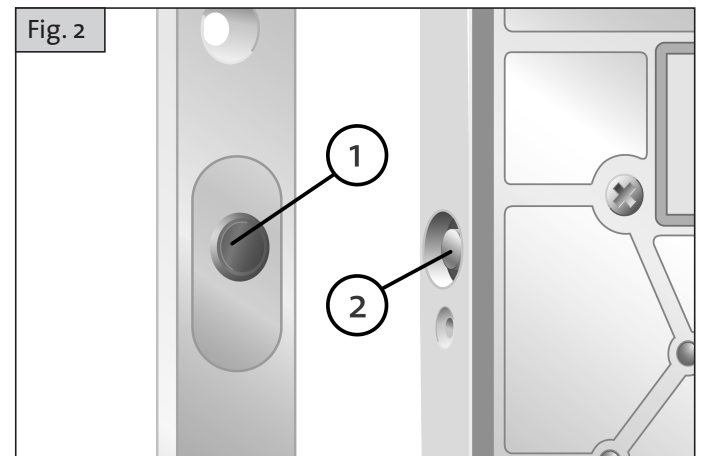
Switch in upper position = Day operation

Switch in lower position = Night operation



4.) Door open/closed detection (Fig. 2):

Install the magnet centrally (± 1 mm) in line with the reed sensor. Max. distance 4 mm (± 3 mm)

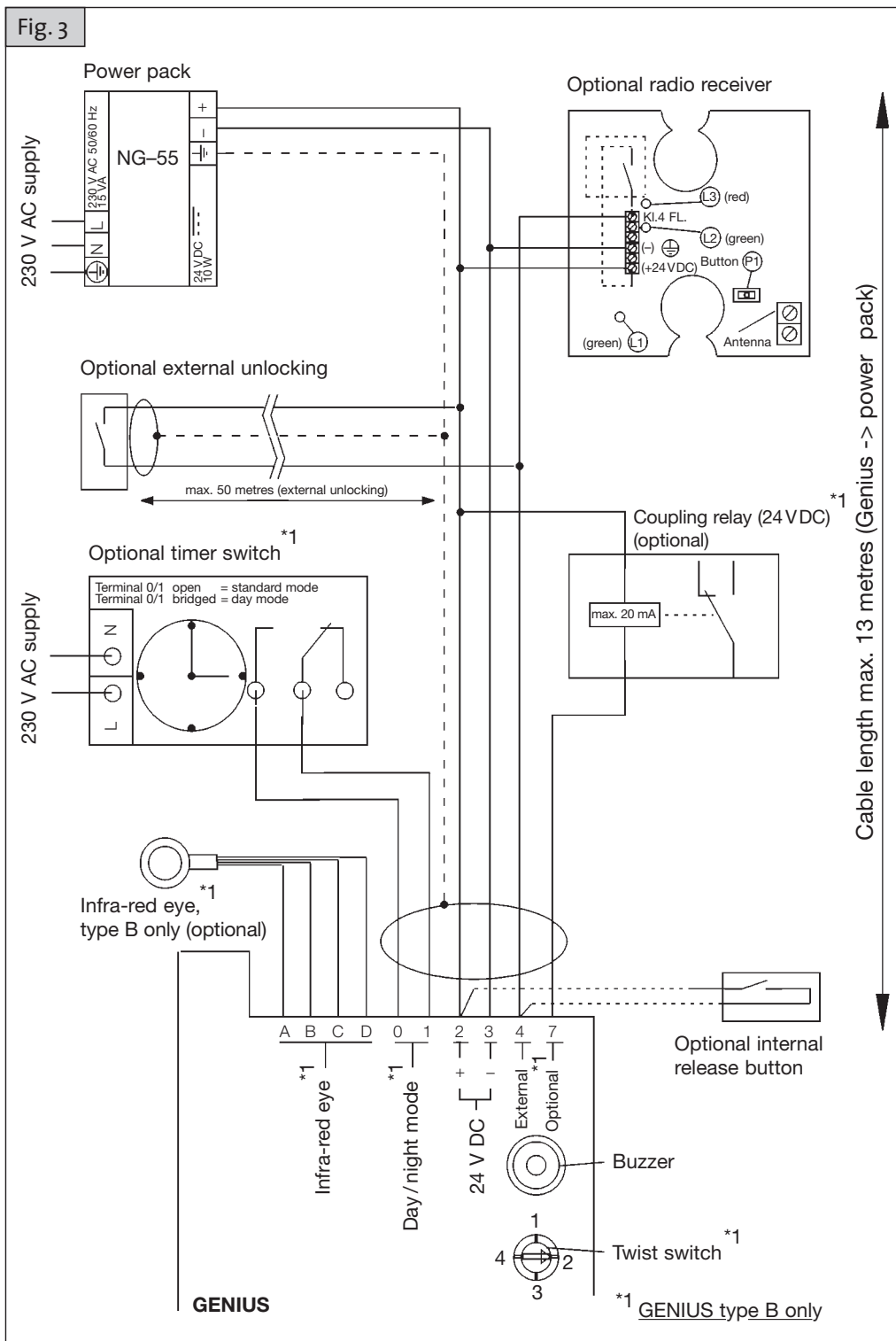


5.) Rotary switch (optional signal outputs)

Terminal 7 Open Collector, load max. 20 mA; potential-free from 24 V coupling relay (KFV accessory).

Position	Status	Notes
1	Locked	As soon as the lock is fully locked (manually or electronically), there is minus/earth at the "Opt" Terminal 7 (day operation).
2	Door closed	As soon as the door is closed, there is minus/earth at the "Opt" Terminal 7.
3	Latch in retracted position	When the latch is drawn into the retracted position by the motor, there is minus/earth at the "Opt" Terminal 7. This function can be used to activate a revolving door drive by means of a relay.
4	Alarm activated/deactivated	If the lock button of the 2-channel infra-red hand-held transmitter is pressed with the door in the locked condition, the components are then in the "Alarm activated mode". Activation of this mode can be seen from the flashing red LED in the infra-red eye on the outside of the door. Switching from night/day operation via terminal 0/1 will now be ignored, i.e. this will not unlock the door. If the "Opt" Terminal 7 is connected to a relay, this can be used for activating/deactivating an alarm system. To deactivate the alarm, the opening switch of the infra-red hand-held transmitter must be pressed once. Opening of the door is carried out by pressing this button a second time. In order to maintain the "Alarm activated" status in the event of a power failure, there is minus/earth at the output when the alarm is deactivated. Alarm deactivated = "Opt" 7 = Minus. > Relay on Alarm activated = "Opt" 7 = high resistance. > Relay off The opener contact of the relay must be used therefore in order to switch the alarm system on.

6.) Circuit diagram GENIUS Type B (Fig. 3)



7.) Teaching the access key

1. Open all locking elements
2. Hold the door open
3. Hold the programming key in front of the infra-red eye and press the button several times
4. The red LED in the infra-red eye flashes
5. Hold the access key in front of the infra-red eye and press the button
6. Successful programming is signalled by a fluctuating "success" tone
7. To check for proper operation, press the button of the access key again. The GENIUS draws the latch into the retracted position and releases it again.

8.) Teaching the programming key

1. Open all locking elements
2. Hold the door open
3. Switch off the operating voltage
4. Switch on the operating voltage
5. The red LED in the infra-red eye flashes
6. Hold the programming key in front of the infra-red eye and press the button several times
7. The red LED remains on
8. Successful programming is signalled by a fluctuating "success" tone
9. All access keys must be taught separately

For comprehensive information and safety instructions, see GENIUS "Installation and Operating Instructions".