

DGLI/DGLP

The auxiliary proximity reader has a built-in antenna and an RFID emission field of 125 kHz. When a proximity card or key fob is presented in front of the reader, the RF field activates the cob inside the card through a **Manchester modulation**. The reader converts then this modulation transmitted at 125 kHz by the proximity card or badge into a binary signal and memorize it into a 10-digit code format. Once the control unit asks the reader if a badge has been read. It replies by transmitting the code to the control unit. Then the proximity reader waits for the badge to be removed to stop the reading and reset itself.

UCA3/DGPROX

The stand-alone proximity readers UCA3 and DGPROX have built-in antennas, with an RFID emission field of 125 kHz.

The control unit (processor) inside the UCA3 and the DGPROX inquire the built-in reader then the auxiliary proximity reader (DGLI or DGLP). When a reader signals the presence of a proximity card or badge then it transfers the code number to the host system micro controller. The micro controller then verifies in the EEPROM if the code number is valid (code number matches one of the code in the memory). If the card or badge is not valid then the micro controller activates the buzzer (2 beeps). If the card or badge is valid then the micro controller activates the relay output (according to the output time set) and changes the LED color to green.