```
PROGRAM PLC PRG
2
3
          Reset: BOOL;
          Load : BOOL ;
5
          Output Down : BOOL ;
          CarArrival : BOOL ;
7
          CarDeparture : BOOL ;
8
         ParkingCounter: CTUD;
9
         Occupancy: INT;
10
        MaxOccupancy: INT;
11
         System Relay: BOOL;
12
         System: BOOL;
13
         Green Led: BOOL;
14
         Counter: BOOL;
15
         CU Button : BOOL ;
         System LED: BOOL;
16
17
         Door up 1 : BOOL ;
18
         Open_Gate_1 : TON ;
19
         Close_Gate_1 : TON ;
20
         Door_closed_1 : BOOL ;
21
          T1: TIME;
          T2: TIME;
22
23
          T3: TIME;
24
          T4: TIME;
25
          CD Button : BOOL ;
26
          Door_up_2 : BOOL ;
          Door_closed_2 : BOOL ;
27
28
          Close_Gate_2 : TON ;
29
          Open_gate_2 : TON ;
30
          Red_Led: BOOL;
31
          Available_Parking : INT ;
32
       END VAR
33
```

```
System_Relay

System_Relay

System_Relay

System_LED
```

```
System_Relay CU_Button Red_Led
                                                                        Door_up_1
                                                                           _(s)
                     Open_Gate_1
                                        Close_Gate_1
                                                                     Door_closed_1
       Door_up_1
                         TON
                                             TON
                    ΙN
                                Q
                                       IN
                               ET - T1
                                                    ET — T2
                                T#8S —
                                       PT
                                                                       CarArrival
      Door_closed_1
6
      Door closed 1
                                                                        Door up 1
                                                                          --(R)
                      CD Button
                                                                        Door up 2
       System Relay
                                                                           -(s)
8
                     Open_gate_2
                                        Close_Gate_2
       Door_up_2
                                                                     Door_closed_2
                         TON
                                             TON
                                       IN
                                                    ET - T4
                               EΤ
                                T#8S — PT
9
      Door closed 2
                                                                      CarDeparture
10
                                                                        Door_up_2
       Door closed 2
                                                                           -(R)
11
      System Relay
                       Red Led
                                                                        Green Led
```

