Claims

1. Data capture device (4, 6) for a building system (1, 10) comprising:

a housing (36) that can be arranged on a floor (L, F1, F2) of a building (2) or at an entrance (34) to a restricted-access region, the building (2) comprising the building system (1, 10);

a display device (50) arranged on a front side of the housing (36) such that it is accessible to a user (5);

an optical reading device (26) arranged in the housing (36) and embodied to optically detect information from a first information carrier (9a), wherein the optical reading device (26) is arranged such that through an image sensor (27) of the optical reading device (26) light can be received from the direction of the front side of the housing (36) that is accessible to the user (5);

a first reading device (28) arranged in the housing (36) and having a first antenna (40) in order to detect information from a second information carrier (9b) by means of radio communication, the first antenna (40) comprising an air coil (43) that has an inner space (45); and,

a control device (38, 41) arranged in the housing (36) and communicatively connected to the display device (50), the optical reading device (26), and the first reading device (28);

wherein the image sensor (27) of the optical reading device (26) is arranged entirely or partially in the inner space (45) of the air coil (43).

2. Data capture device (4, 6) according to claim 1, further comprising a marking element (31) that on the front side of the housing (36) is visible to the user (5), the marking element (31) marking a region in which the air coil (43) and the image sensor (27) arranged in its inner space (45) are arranged.

3. Data capture device (4, 6) according to claim 2, in which the front side of the housing (36) in the region marked by the marking element (31) is transparent to light to be detected by the image sensor (27).

4. Data capture device (4, 6) according to one of claims 2-3, also having a light source (48) arranged in the housing (36) and by means of which the marking element (31) can be illuminated.

5. Data capture device (4, 6) according to claim 4, in which the marking element (31) comprises the light source (48).

6. Data capture device (4, 6) according to claim 4 or 5, in which the light source (48) is integrated in a diffuser or feeds light into the diffuser.

7. Data capture device (4, 6) according to one of claims 1-6, in which the first reading device (28) and the first antenna (40) are embodied for radio communication in a first frequency range of approx. 100 kHz - 200 kHz, in particular for a frequency of approx. 125 kHz or approx. 134 kHz.

8. Data capture device (4, 6) according to one of claims 1-6, also having a carrier element (60) on which the optical reading device (26) and the first reading device (28) are arranged,

- wherein the carrier element (60) has an opening (62) through which a passage between a first side and a second side of the carrier element (60) is created, and,
- wherein the air coil (43) surrounds the opening (62).

9. Data capture device (4, 6) according to claim 8, further comprising a second reading device (38) and a second antenna (47) which are embodied for radio communication in a second frequency range of approx. 4 MHz - approx. 20 MHz, in particular for a frequency of 13.56 MHz, the second antenna (47) being integrated into the carrier element (60).

10. Data capture device (4, 6) according to any of claims 1-9, further comprising a radio transceiver (66) for communication with a communication device (9c) of a user (5c), wherein the radio transceiver (66) is connected to the control device (41).

11. Data capture device (4, 6) according to one of claims 1-10, also comprising an input device (46) with a keyboard or a touch-sensitive surface for manually inputting data.

12. Data capture device (4, 6) according to one of claims 1-11, in which the optical reading device (26) comprises a digital camera, the digital camera comprising the image sensor (27).

13. Building system (1, 10) in a building (2) with at least one data capture device (4, 6) according to one of claims 1-12.

14. Building system (1, 10) according to claim 13, in which the at least one data capture device (4, 6) for detecting an elevator call is arranged on a floor (L, F1, F2) of the building (2).

15. Building system (1, 10) according to one of claims 13-14, in which the at least one data

capture device (4, 6) for acquiring proof of authorization is arranged at an entrance (34) to a restricted-access region.