

SE10 / Orientation Light		FUTURE SHAPE
Date of Issue	Document ID	
16.10.2024	E_INSTALL_SE10_Orientation_Light.docx	01

Orientation light switching with SensFloor

1 Description of the function

The control unit of the SensFloor-Care system, the so-called SE10, has potential-free relays (see [SE10_Datasheet]) in the SE10-H design (installation on the top-hat rail), which can be used for switching an orientation light, among other things. For this purpose, a presence alarm is configured in the SE10-H (see [SE10_Manual]), which switches the assigned relay when activity is detected and resets the relay again when the activity disappears.

For this alarm, the SE10 software can be used to set a period during which the alarm should be active. In addition, areas of the SensFloor can be selected for which the activity detection is evaluated.

2 Limitations of the function

Other criteria such as the brightness in the room cannot be captured and therefore cannot be considered. Furthermore, no additional manual switch for switching the orientation light on/off can be linked to the SensFloor system.

It should also be noted that there are other objects besides people that can generate SensFloor activity. These include, for example, damp or water-containing objects, objects made of electrically conductive material (metal, lamps, cables, electrical devices) and materials with increased dielectric conductivity (e.g. some types of rubber).

3 Technical Setup

Figure 1 shows the connection and wiring of an orientation light that is switched directly by the SE10 of the SensFloor-Care system. An additional 230V relay is installed on the top-hat rail to control a 230V light.

Date of Issue	Document ID	Version
16.10.2024	E_INSTALL_SE10_Orientation_Light.docx	01

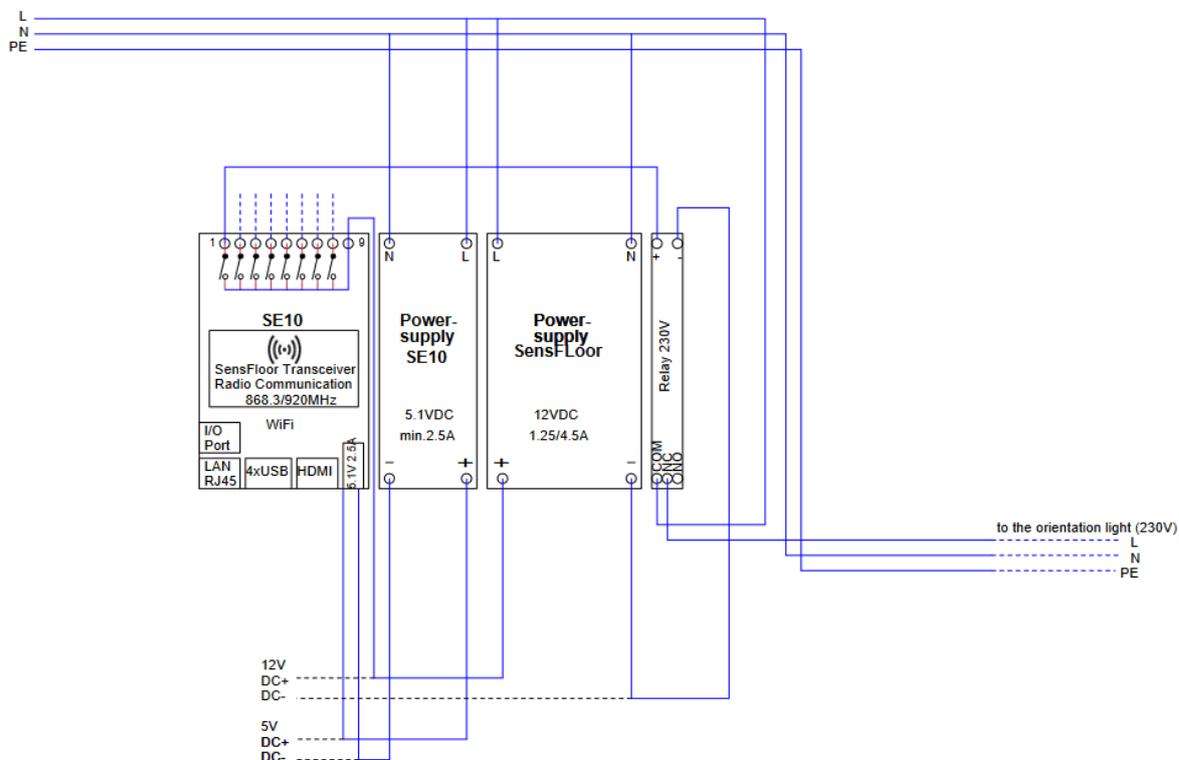


Figure 1: Circuit diagram for connecting an orientation light to the SensFloor-Care system

4 Preliminaries by the Customer

Figure 2 outlines the necessary on-site preparations for the electrical installation of the SensFloor-Care system. The drawing shows the SE10 and all necessary power supply units installed on the top-hat rail. For general preparatory measures, please refer to the document [Preliminaries] which outlines the necessary on-site preparations for the electrical installation of the SensFloor-Care system.

To switch an orientation light with the SensFloor-Care system, an additional power supply line to the orientation light must be laid to the SensFloor-Care components to be installed in

Date of Issue	Document ID	Version
16.10.2024	E_INSTALL_SE10_Orientation_Light.docx	01

the switch box. This power supply line must lead to the orientation light and be connected to it. The orientation light itself must also be ordered and installed by the customer.

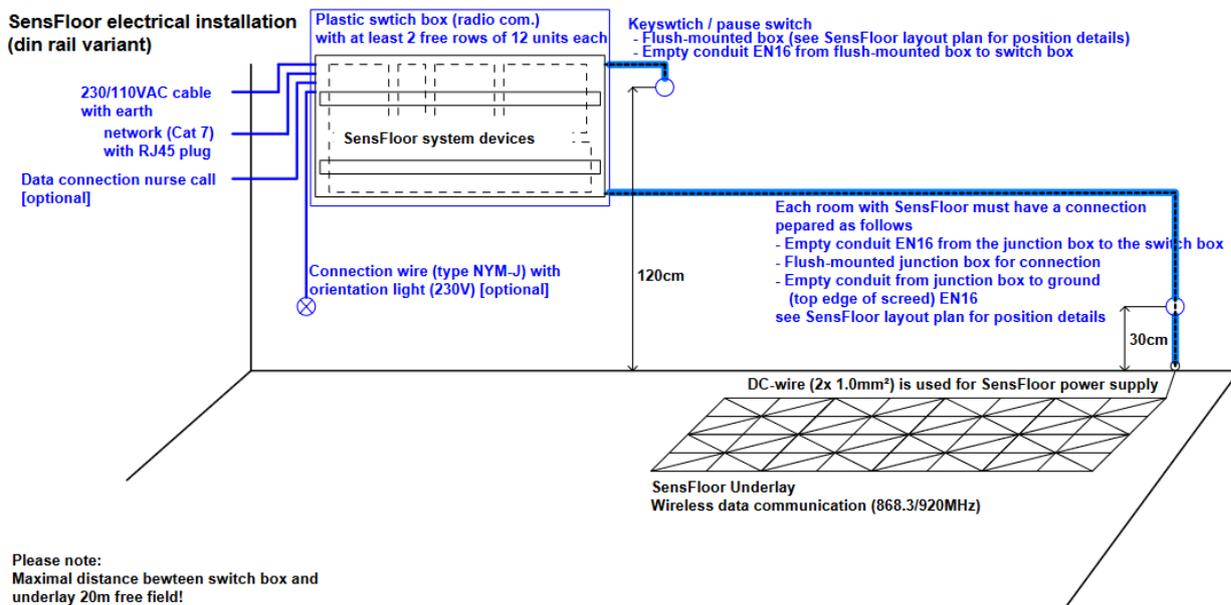


Figure 2: Outline of the necessary on-site preparations for the electrical installation of the SensFloor-Care system

5 References

- [SE10_Datasheet] Technical Data of the SensFloor® Receiver SE10, Document name: E_Datasheet_SE10.pdf, Future-Shape GmbH
- [SE10_Manual] Manual SE10 Room Terminal, Document name: E_Manual_SE10_Room_Terminal.pdf, Future-Shape GmbH
- [Preliminaries] Preliminaries for a fixed SensFloor installation, Document name: E_Preliminaries_by_Customer.pdf, Future-Shape GmbH