



SMARTFLEXX®

Fully preconfigured, plug-and-play steering system for lighting and shading control

What makes the SmartFlexx® so unique:

- Developed by GIA Systems or:
- All intelligence is programmed in the "stand alone" module or:
- All detectors and pushbuttons are wired directly and flexibly or:
- All required functionalities are fully preconfigured and/or:
- Plug & play control solution without the need for any form of commissioning

What is SmartFlexx®?

SmartFlexx® is a unique control system developed by GIA Systems. All intelligence is programmed in the "stand alone" module and all detectors are wired directly and flexibly. There is no 'spaghetti' of cables running over your ceiling but the cables are centralized in a Flexbox® junction box. The cabling can be adapted quickly when the layout of a building changes. SmartFlexx® is fully preconfigured and

plug and play:

no commissioning is required. In some cases, "dipswitches" are provided to allow personalized choices to be made.

Where is SmartFlexx® used?

GIA Systems has developed this system for controlling lighting, HVAC and shading control, among other things. It is used in offices, meeting rooms, classrooms and care rooms. SmartFlexx® consists of electronics without a communication bus. Thanks to the electronics, you can create more complex functionalities.

Why SmartFlexx®?

Our experience has shown that a system with Flexbox® junction boxes and flexible cabling has functional limitations. Especially with dimming (0-10V or DALI) and proportional light control, the functionality of the detector is limited to parallel circuits. In the case of more complex functionality and/or central control, an over-specified and therefore too expensive bus system was chosen. SmartFlexx® meets this need for building automation, which is located between detectors and bus systems.



Switch to efficiency

What functionalities does SmartFlexx® offer?

With SmartFlexx® you can control the following functions:

- Lighting via presence detection
- Switching of lighting
- Connection with EnOcean wireless push buttons
- Control of the shading, possibly in combination with a weather station
- Dimming lighting:
 - up to 3 DALI broadcast channels
 - up to 2 0-10V channels
- HVAC contact
- Operation of the ventilation
- Connection to an alarm system
- Give commands via an infrared remote control
- Central out / Central in

It is not possible to put all these functions in one module. A choice must be made in function of the project. GIA Systems will be happy to advise you and develop a comprehensive solution for your project.

Advantages of SmartFlexx®

The advantages of a SmartFlexx® system are as follows:

Organised

- The SmartFlexx® is a junction in the cabling. On the SmartFlexx® junction box you can quickly find the connections made.
- Thanks to the SmartFlexx® junction box, the cabling is structured, tidy and clear.
- This saves even more costs in maintenance and adjustments.

Fast

- Cables are delivered assembled with plugs, which saves a lot of time, because you don't have to cut, strip and connect at the construction site anymore.
- Such a pluggable solution ensures that a large part of the work can be done by less skilled mechanics.

Safe

- The SmartFlexx® is a fully closed and sealed junction box. Furthermore, with this junction box there are no more faulty connections due to the use of different colour plugs. There is also no internal temperature increase and there are minimal transition resistances due to a direct connection. Finally, maintenance is also very safe and easy.
- All connected push buttons and detectors have a safety voltage of 24V.

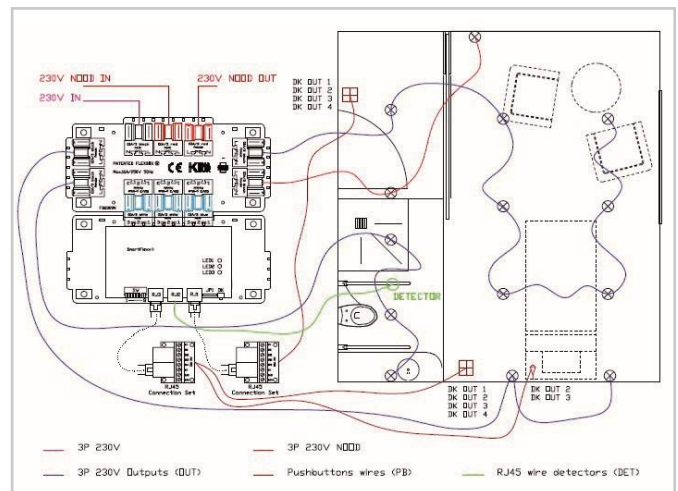
Even after completion of the construction work, flexible cabling offers advantages:

- Connections are no longer in a grey 'junction box' but are visible. Therefore it is no longer necessary to switch off the voltage and go to the 'junction box' to see how the connections are made. Part of the maintenance can be done during working hours.

Attention: the plugs must not be plugged in or pulled out when live (according to EN61.535).

Flexible

- Smooth cabling makes it easier to adjust an installation: cables can be added and removed, switches and detectors can be added quickly. Due to the simplicity of our solution, time savings of up to > 50% compared to traditional cabling can be achieved. This of course results in a substantially lower installation price.



Example of SmartFlexx® application for a hotel or care room.

GIA systems is happy to advise you on your specific solution and develops a well thought-out and complete solution for every project.

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