FA102 · Keilton+autani

Bluetooth node for fitting in luminaires

The FA102 is a small wireless module fitted inside the luminaire. It turns an LED luminaire into a device on the Bluetooth network that can be switched and dimmed individually. It draws its power from the LED driver and also accepts simple Eco sensors without their own Bluetooth.



2× 0-10 V
Dimming outputs
Two control signals, e.g. for brightness and colour temperature.

12 V
Power supply
Comes from the LED driver, no separate cable.

60 m
Wireless range
To the next device; less in metal luminaires.

0.5 W
Own consumption
Power consumption of the module in operation.

BENEFITS

What the FA102 does for you

- **Each luminaire controlled individually**
  Switching and dimming at luminaire level, grouped and set up in the app.
- **Sensor hidden in the luminaire**
  Eco sensors such as the MWS105E sit inside the luminaire and report via the FA102.
- **Data for monitoring**
  Each luminaire reports switching and dimming status and occupancy to the AU-Manager.

AT A GLANCE

The FA102 in brief

Location	**inside the luminaire, indoors**
Driver	**dim-to-off, 0-10 V, 12 V AUX**
Outputs	**2× 0-10 V (FA102.B2)**
PIR sensors	**IFS105E, IFS108E**
Microwave	**MWS105E, MWS108E**
Cables	**CC and FC (separate)**

IN THE SYSTEM

How the FA102 fits in

Eco sensor
detects motion (optional)
→
FA102 in the luminaire
switches and dims the luminaire
→
Bluetooth mesh
networks the zone's devices
→
AU-Manager
via CR05: analysis, remote access

Via CR05 and AU-Manager, every luminaire with an FA102 becomes visible in EnergyCenter – with switching, dimming and occupancy data.

A GOOD FIT IF ...

- ✓ LED drivers with 0-10 V, dim-to-off and 12 V AUX
- ✓ Luminaire manufacturers and retrofits
- ✓ Luminaires in indoor spaces

DIFFERENT REQUIREMENT?

Sensor mounted on the high-bay luminaire	**EFS106**
Sensor on the office luminaire	**IFS105SE / IFS108**
Microwave sensor for the FA102	**MWS105E**
Luminaires with DALI drivers	**please ask**

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Planning and installation: info@buildingrobotics.de · +49 30 4397929208 · buildingrobotics.de/en/sensors/fa102/
Manufacturer data (Keilton+autani), as of November 2026. Subject to technical changes.

Technical data

ELECTRICAL		
Power supply	**12 V DC / 45 mA / 0.5 W**	Comes from the LED driver's auxiliary output.
Output	**2× 0-10 V (FA102.B2); further manufacturer variants C1, C2, D1**	Supplied variant FA102.B2 with two outputs.
Dimming output	**0-10 V (Class 2), max. 10 mA**	Control signal to the LED driver.

NETWORKING AND SENSORS		
Wireless	**Bluetooth 5.0 (60 m), 2.4 GHz**	Range to the next device in the mesh.
Compatible Eco sensors	**IFS105E, IFS108E (PIR/daylight), MWS105E, MWS108E (microwave)**	Sensors without their own Bluetooth.
Cables (not included)	**CC30/CC60/CC120 to sensor, FC30/FC60 to driver**	Choose length to suit the installation.

ENVIRONMENT AND HOUSING		
Temperature range	**–30 °C to 55 °C**	Also suitable for unheated rooms.
Ingress protection	**IP20**	For fitting inside the luminaire housing.
Housing	**Flame-retardant plastic (class V-0), white**	
Standards	**CE, RoHS (EU Directive 2011/65/EU)**	CE-marked for the EU market, no restricted substances.

INSTALLATION

Fitting in the luminaire

Check driver
Dim-to-off, 0-10 V input and 12 V auxiliary output required.

Fit
Place the FA102 in the luminaire, FC cable to the driver.

Connect sensor
Connect an Eco sensor via CC cable if required.

Add
Add the luminaire in the app, set group and parameters.

ORDERING

Items and accessories

`FA102.B2`	Bluetooth node, 2× 0-10 V
`CC30`	Cable PH2.0-4P, 300 mm (adapter–sensor)
`FC30`	Cable XH2.54-4P, 300 mm (to LED driver)

FREQUENTLY ASKED QUESTIONS

Which LED drivers are compatible with the FA102?
Dimmable LED drivers with dim-to-off function, 0-10 V input and 12 V auxiliary output. The FA102 is powered via this output and outputs the dimming signal via 0-10 V.

Which sensors can I connect to the FA102?
Keilton+autani Eco sensors: according to the manufacturer, the IFS105E and IFS108E (PIR and daylight) and the MWS105E and MWS108E microwave sensors.

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