

PRESS RELEASE



Monoblock sensors with integrated control unit

The complete sensor modules from STEINEL Solutions are now available to luminaire manufacturers for retrofitting with HF sensors.

Everything combined in one module. With the SENSOTEC MB HF1 and MB HF2 monoblock sensors from STEINEL Solutions, luminaire manufacturers can easily upgrade their luminaires with HF sensor technology. The modules designed for indoor applications are equipped with the latest high-frequency technology from STEINEL and ensure that the light is automatically switched on and off according to the ambient brightness and detected movement. With an individually adjustable range, detection takes place through glass and other thin, non-metallic materials so that the modules can be installed almost invisibly inside a luminaire. The control unit for DALI and COM1 is integrated into the respective monoblock sensor. This enables space-saving sensor technology with connection to DALI bus systems.

Compact light intelligence

Luminaire manufacturers can now use the intelligent complete high-frequency sensor modules for installation in high-quality luminaires. What all SENSOTEC sensor modules have in common is the active sensor system for motion detection. The HF module, which operates according to the Doppler principle, emits electromagnetic waves at a frequency of 5.8 GHz and a maximum transmission power of 2 mW and receives the echo reflected by walls and objects. If the echo changes due to the registration of a movement, this change is converted into a switching signal. Motion detection is completely independent of direction and temperature. The response brightness can be freely selected between 2 and 2000 lux. The run-on time can be individually set between 30 seconds and 30 minutes. It is conveniently operated by remote control. Low power consumption and a 100-240 V power supply unit for the COM1 version are further advantages of the complete sensor modules. Screw-on lugs on the housing make installation particularly easy.

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SENSOTEC MB HF1

With its compact dimensions of 52 x 40 x 32 millimetres, the SENSOTEC MB HF1 equipped with a patch antenna requires only minimal space inside a luminaire. With a detection range of 5 metres in diameter and a maximum mounting height of 5 metres, it reliably detects movement. The detection angle is 360 degrees with an aperture angle of 110 degrees. In addition to the motion sensor, the COM1 and DALI versions of the module are equipped with a light sensor, a feedback display and a parameterisation interface. A potentiometer for making all settings completes the COM1 version.





SENSOTEC MB HF2

The SENSOTEC MB HF2 sensor module equipped with a rod antenna is characterised by a detection range of 8 metres in diameter at a mounting height of up to 4 metres. With a detection angle of 360 degrees and an aperture angle of 160 degrees, movements are reliably detected regardless of the direction of movement and ambient temperature. This complete module is also available with either COM1 or DALI interfaces.

Whether equipping with new sensor technology or replacing existing sensors: With the new SENSOTEC system from Swiss sensor specialist STEINEL Solutions, luminaire manufacturers now have a flexible and easy-to-install solution for equipping luminaires with modern sensor intelligence.

STEINEL Solutions at Light+Building 2018: Hall 4.0 Stand E13

Picture gallery

	
MB HF1 COM1: High-frequency sensor with patch antenna with minimum space requirement for installation in innovative luminaires	MB HF1 DALI: Compact sensor module for installation in DALI environments.
	
MB HF2 COM1: HF sensor module with rod antenna for optimised 360-degree detection - with integrated COM1 interface	MB HF2 DALI: HF sensor module with rod antenna and integrated DALI interface

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Technical Data:

Status: February 2018 (subject to change)

	MB HF1 COM1	MB HF1 DALI	MB HF2 COM1	MB HF2 DALI
Dimensions	52 x 40 x 32mm hole spacing 62 mm	52 x 40 x 32mm hole spacing 62 mm	63 x 40 x 42mm hole spacing 71 mm	63 x 40 x 42mm hole spacing 71 mm
Equipment	Motion sensor Light sensor Feedback display Parameterisation interface Potentiometer	Motion sensor Light sensor Feedback display Parameterisation interface	Motion sensor Light sensor Feedback display Parameterisation interface Potentiometer	Motion sensor Light sensor Feedback display Parameterisation interface
Sensor technology	High frequency technology Patch antenna	High frequency technology Patch antenna	High frequency technology Rod antenna	High frequency technology Rod antenna
Transmission power	1-2 mW	1-2 mW	1-2 mW	1-2 mW
Transmission frequency	5,8 GHz	5,8 GHz	5,8 GHz	5,8 GHz
Light measurement	2-2000 Lux	2-2000 Lux	2-2000 Lux	2-2000 Lux
Angle of coverage	360° with 110° opening angle	360° with 110° opening angle	360° with 160° opening angle	360° with 160° opening angle
Detection range for movement	For mounting height 5 m: max. Ø 5 m	For mounting height 5 m: max. Ø 5 m	For mounting height 4 m: max. Ø 8 m	For mounting height 4 m: max. Ø 8 m
Mains connection	100 – 240 V, 50/60 Hz	220-240 V, 50 Hz	100 – 240 V, 50/60 Hz	220-240 V, 50 Hz
Performance	300 W/ 10 A	max. 15 EVG	300 W/ 10 A	max. 15 EVG
Connection	0,5 – 2,5 mm ²	0,5 – 2,5 mm ²	0,5 – 2,5 mm ²	0,5 – 2,5 mm ²
Protection class	IP 20	IP 20	IP 20	IP 20
Protection class	II	II	II	II
Temperature range	-20° to + 60°C	-20° to + 60°C	-20° to + 60°C	-20° to + 60°C
Conformity	CE/ ENEC	CE	CE	CE

Company portrait

For more than 20 years, STEINEL Solutions has been a competent partner for renowned companies from a wide range of industries when it comes to module and system solutions. With currently 130 specially trained specialists at its Swiss location in Einsiedeln, STEINEL Solutions has developed into a competence centre for the planning and implementation of OEM and ODM products. This is supported by first-class project management and the core areas of research, development, industrialisation, production and logistics. Interface-free process management, innovative technologies and customised production make STEINEL Solutions a reliable partner for customised electronics and system services. STEINEL Solutions is part of the internationally active STEINEL Group with six development and manufacturing competence centres in Europe and 1,400 employees.

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