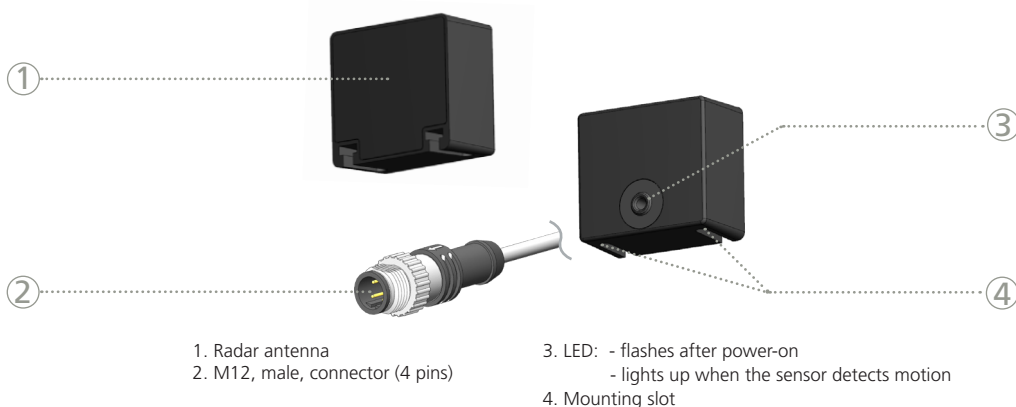


CGS-KF112

ACTIVATION SENSOR FOR ESCALATORS

Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

DESCRIPTION



TECHNICAL SPECIFICATIONS

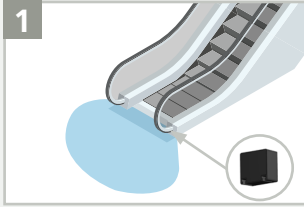
Technology	FMCW Technology
Transmitter frequency *	24.00 GHz ~ 24.25 GHz
Transmitter radiated power	<20dBm EIRP
Transmitter power density	< 10 W/m ²
Detection mode	Motion
Supply voltage **	12 V ~ 24 V DC +30% / -10%
Max. power consumption	< 1.5W
Output **	PNP
Max. switching current	100mA
Output voltage	Vin-Vdrop
Voltage drop (Vdrop)	< 2V @ 100mA
Temperature range	-20°C ~ + 55°C
Dimensions	48mm (L) x 43 mm (H) x 24 mm (W)
Cable length	50cm
Material	ABS + PC
Protection degree	IP67
Accessories	5m/7m cable with M12 connector (Female) Remote control

Specifications are subject to changes without prior notice. Measured in specific conditions.

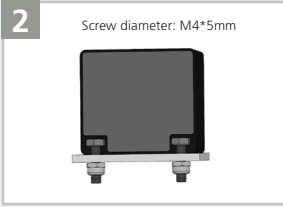
* Other values are permitted for compliance with country-specific regulations.

** External electrical sources must be within specified voltages, max 15W and ensure double insulation from primary voltages.

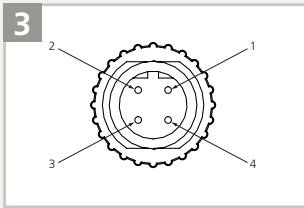
1 MOUNTING & WIRING



Mount on the right inner side of the escalator handrail. It is recommended that the horizontal angle (toward the escalator center) be 18-25° and the upward angle be 5-10°.

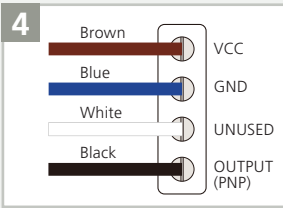


Install the screw and fix the sensor firmly.



M12, male, connector connects the wires.

- 1. VCC 3. GND
- 2. UNUSED 4. OUTPUT



Wiring.

2 PARAMETER SETTING

If needed, you can use remote control to adjust the sensors. Both front and back sides are accessible.



SENSITIVITY (Detection field) low > > **>** > > > > high

IMMUNITY FILTER low > > **>** > > > > high

OUTPUT CONFIGURATION **high level** low level frequency

FREQUENCY SETTING **A** 0 0 ... **0 2** ... **5 0**

no detection 0Hz low level **20** 500

B 0 0 ... **1 0** ... **5 0**

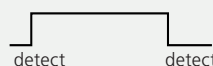
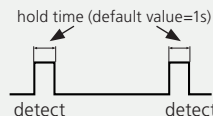
detection 0Hz low level **100** 500

HOLD TIME 0.5s **1s** 2s 3s 5s 10s 15s 20s 30s

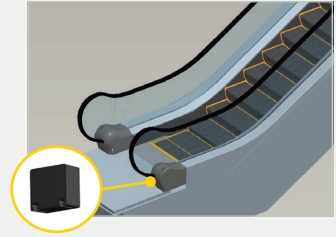
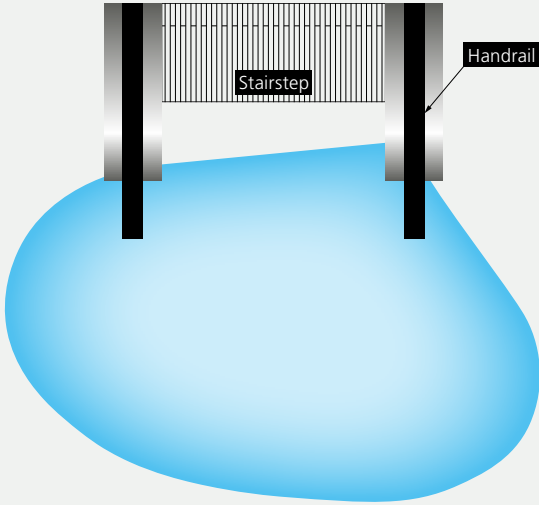
OUTPUT MODE **F1** ***pulse** *toggle

* **PULSE MODE**: Each detection activates the output for a short period of time.

* **TOGGLE MODE**: The first detection activates the output and the second detection deactivates it.



3 INSTALLATION POSITION

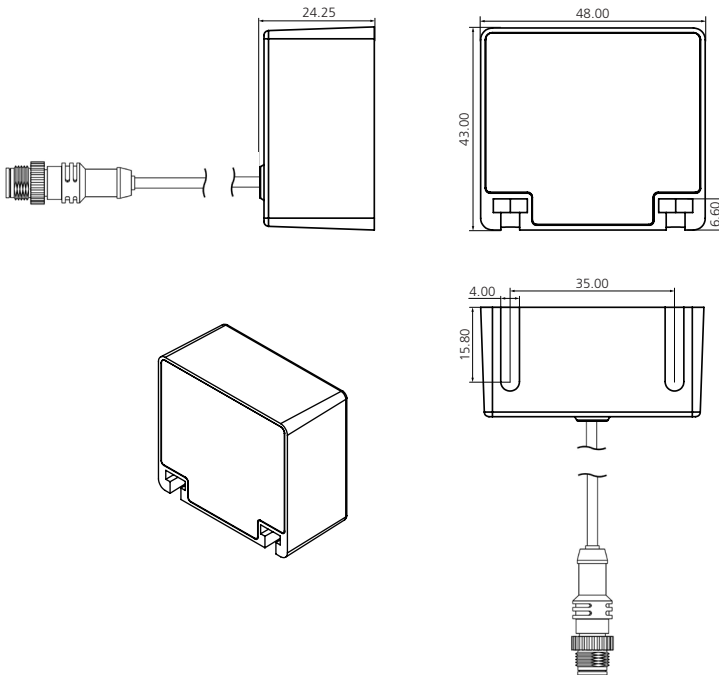


Refer to the Application Note.

The representation of detection lobe is based on standard tests and may vary according to installation angle, escalator type, front cover and environment.

4 PHYSICAL DIMENSION

All dimensions are in mm.



TROUBLE SHOOTING

The escalator is not activated as supposed to be. The LED is OFF.	The sensor power is off.		Check the wiring and the power supply.
The escalator is activated/ deactivated improperly.	The installation position, the tilt angle or the sensitivity is improper.	1 2 3 4	1 Make sure the sensor is fixed properly. 2 Adjust the tilt angle. 3 Adjust the sensitivity. 4 Adjust the immunity level.
The escalator keeps running even when nobody steps in. The LED flashes irregular or lights up permanently.	Output mode error.		Adjust to the Pulse mode.
	Output configuration error.		Set a correct output configuration.
	Sensitivity sets too large.		Set the appropriate sensitivity.
	The power supply is not properly grounded.	1 2	1 Increase the immunity level. 2 Make sure the power supply is properly grounded.
The escalator cannot enter energy saving mode. The LED is not working.	Output configuration error.		Set a correct output configuration.

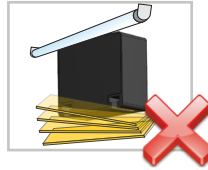
TIPS



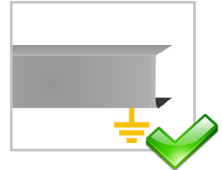
Make sure the sensor installed firmly.
Avoid extreme vibrations.



Do not place the metallic object in front of sensor, or it will impact the detection effects.



Avoid proximity to neon lamps or moving objects.



The escalator controller unit and the escalator cover profile must be correctly earthed.



Avoid putting complex design cover in front of the sensor (honeycomb).



Note: Inappropriate installation angle may cause wrong detection or irregular detection field.

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BEA hereby declares that the equipment type CGS-KF112 is in compliance with European Directives 2014/53/EU (RED), 2011/65/EU (RoHS).

The full text of the EU declaration of conformity is available on our website.



For EU countries: This product should be disposed of separately from unsorted municipal waste.