



CGS-KF112

Activation sensor



APPLICATIONS



TECHNOLOGY

FMCW

DESCRIPTION

CGS-KF112 is an activation sensor based on FMCW radar technology. The multiple work modes and output modes are very convenient to be integrated. It can be used as an activation sensor on energy saving escalators and moving walks.

视频

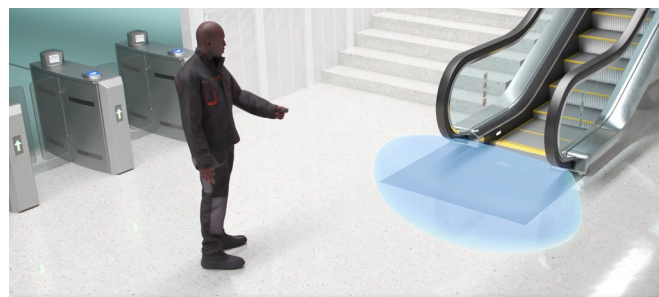


▲ Discover the product video on our youku channel [比业电子传感器](#)



Compact Design

It is seamless and compact designed with IP67 housing, M12 connector convenient to be installed and changed.



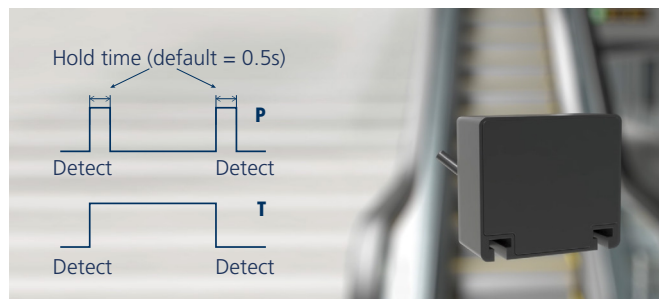
Unilateral Installation, Easy Setting

This special microwave antennae has a wide detection area, which only needs one sensor installation per escalator entrance. The sensor can be configured, debugged at ease using its remote control.



Independent of flooring and surroundings

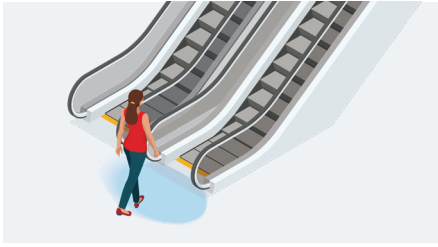
Thanks to the FMCW radar module and smart algorithm, it guarantees the sensors are independence to most flooring and environment surroundings.



Two Output Modes for Options

Pulse mode and toggle mode are provided as option to increase application flexibility.

APPLICATIONS



Escalator activation



Pedestrian walkway activation

- The installation can be hidden and integrated into the interior of the escalator to keep the entrance simple and beautiful.
- Only one sensor is required for each escalator entrance, reducing consumption and saving cost.
- The sensor provides reliable detection in most environment conditions functions independednt to the flooring. It is suitable for commercial and public environments with high traffic rates.
- Provide frequency signal output to improve the reliability of the control system.

TECHNICAL SPECIFICATIONS

Technology	FMCW Technology
Transmitter frequency *	24.00 GHz ~ 24.25 GHz
Transmitter radiated power	< 20 dBm EIRP
Transmitter power density	< 10 W/m ²
Detection mode	motion
Supply voltage **	12 - 24V 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
Accessory	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.



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