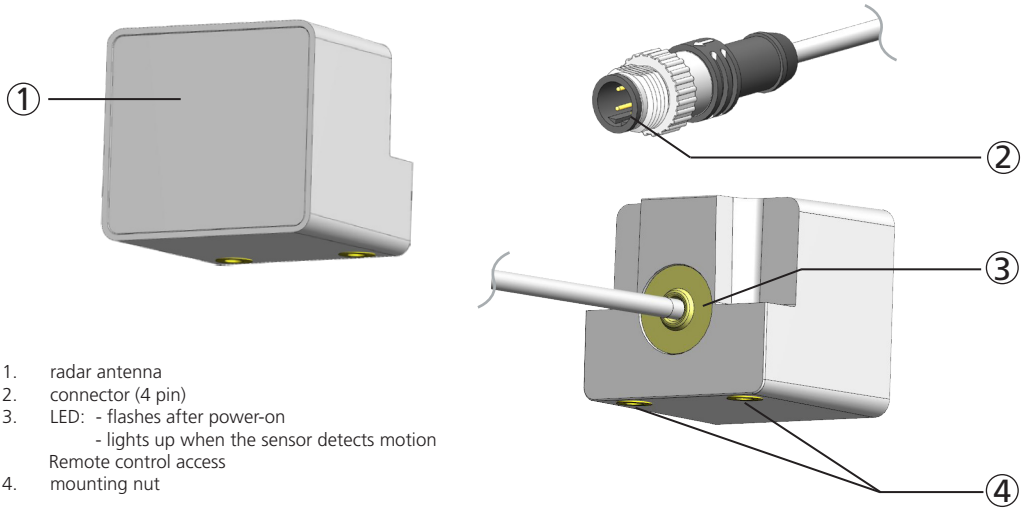
EN

CGS-MF

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



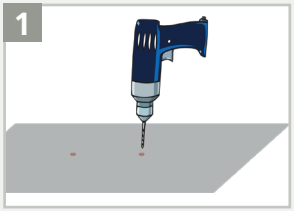
1. radar antenna
2. connector (4 pin)
3. LED: - flashes after power-on
   - lights up when the sensor detects motion
   Remote control access
4. mounting nut

TECHNICAL SPECIFICATIONS

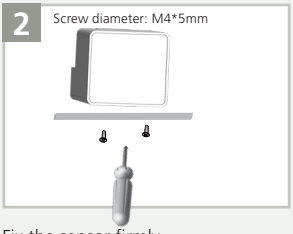
Technology:	microwave doppler radar
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm^2
Detection mode:	motion
Min. detection speed:	5 cm/s (measured in sensor axis)
Supply voltage:	12 V to 24 V DC +30% / -10% (The Equipment must be powered by an approved Class II SELV limited power source. This requirement consists of the need for double insulation between primary voltages and the Equipment supply.)
Max. power consumption:	< 1.5W
Output:	Opto (galvanic isolation - polarity free)
Max. switching voltage:	42V AC/DC
Max. switching current:	100mA
Temperature range:	from -30 °C to + 65 °C
Dimensions:	40.5mm (L) x 36 mm (H) x 36 mm (W)
Cable length:	50cm + 5m cable with connector (optional)
Degree of protection:	IP67

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

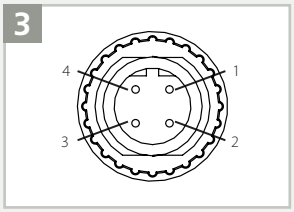
1 MOUNTING & WIRING



Drill holes for the screw.

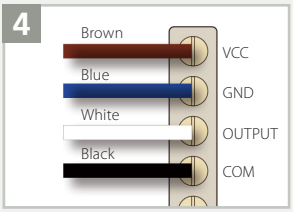


Fix the sensor firmly.



Connect the wires.

1. VCC
2. OUTPUT
3. GND
4. COM

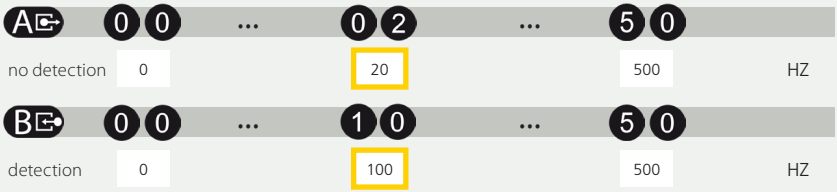


Wiring

2 PARAMETER SETTING

SENSITIVITY	low	>	>	**>**	>	>	>	>	high	
IMMUNITY FILTER	low	>	**>**	>	>	high				
DETECTION MODE	bi	**uni close**	uni away							bi = two-way detection; uni close = one-way detection towards sensor; uni away = one-way detection away from sensor
OUTPUT CONFIGURATION	NO	**NC**	fre-quency							
HOLD TIME	**0.5s**	1s	2s	3s	5s	10s	15s	20s	30s	

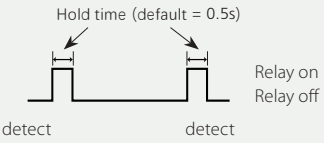
FREQUENCY SETTING



OUTPUT MODE

F1 | ***pulse** | *toggle

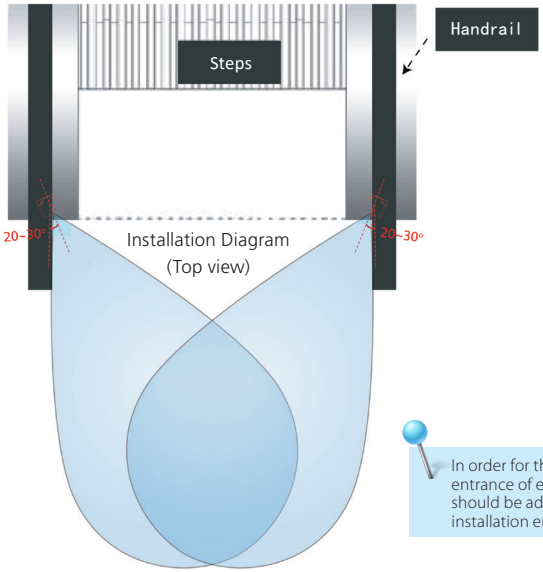
*** PULSE MODE**: Each detection activates the relay output for a short period of hold time.



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

FACTORY VALUES

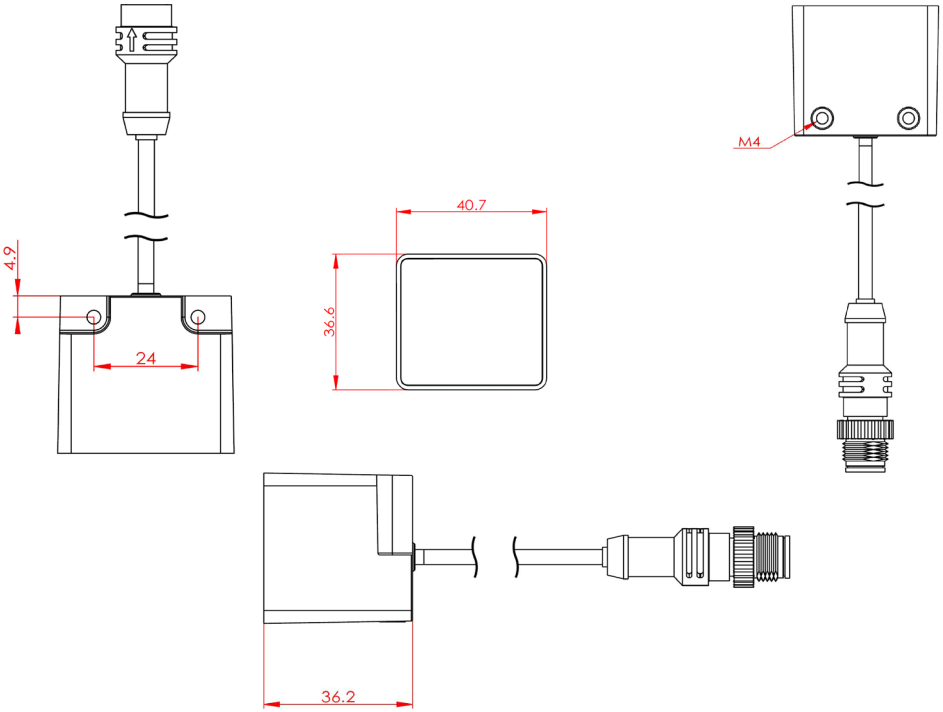
3 INSTALLATION POSITION (escalator reference)



In order for the detection field of sensors to effectively cover the entrance of escalator, we recommend the horizontal tilt angles should be adjusted around 20~30° inward according to the actual installation environment on site.

4 PHYSICAL DIMENSION

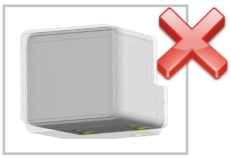
All demensions are in mm



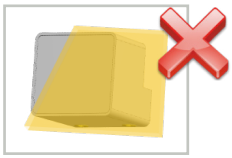
TROUBLE SHOOTING

The Escalator is not activated as supposed to be. The LED is OFF.	The sensor power is off.	1 Check the wiring and the power supply.
The escalator is activated/ deactivated improperly.	The installation position, tilt angle or the size of detection zone of sensor is improper.	1 Make sure the sensor is fixed properly. 2 Adjust the tilt angle. 3 Adjust the size of detection zone. 4 Adjust the immunity level.
The escalator keeps running even when nobody steps in. The LED flashes irregularly or lights up permanently.	Output mode error. Detection field range is too large. Power supply is not properly grounded.	1 Adjust to the Pulse mode. 2 Set the appropriate sensitivity. 3 Increase the immunity level. 4 Make sure the power supply is properly grounded.
The LED flashes 1 x every 3 seconds.	The sensor signals an internal fault.	1 Cut and restore power supply. 2 If LED flashes again, replace sensor.
The LED flashes 2 x every 3 seconds.	Power input	1 Check the normal range of power supply. 2 Replace the power supply.

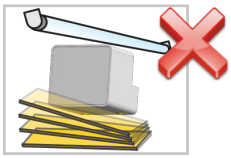
TIPS



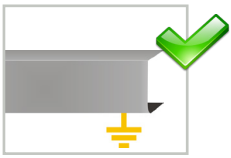
Make sure the sensor installed firmly.
Avoid extreme vibrations.



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 device cover profile and the power supply must be correctly earthed.

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