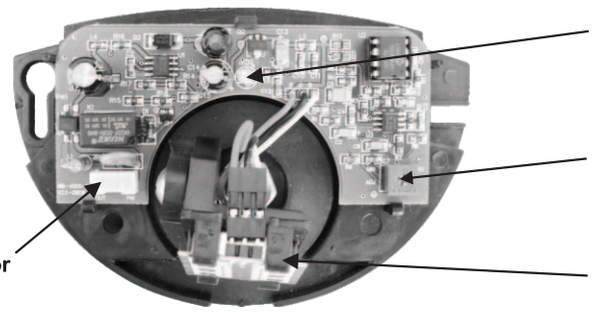
WAFER
Expand the word, Toward the Future

WB–4001U
USER'S GUIDE

UNIVERSAL MOTION SENSORS FOR AUTOMATIC DOORS

1 General information

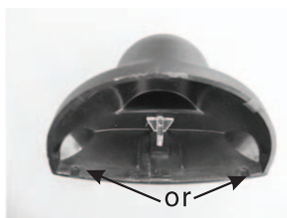
Brown Green	Power supply
White	Relay(COM)
Yellow	Relay(NO)



2 Adjustments

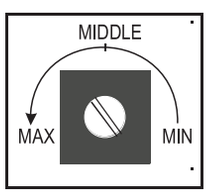
1 Preparation for mounting the sensor

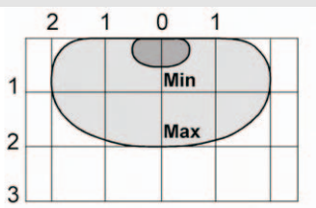
- Paste the template at desired location
- Dnill as instructed



- Optional cable routing,then no need to drill your profile for the cable

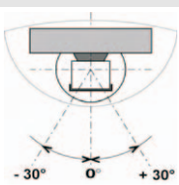
2 The sensitivity settings determine the size of the sensing field

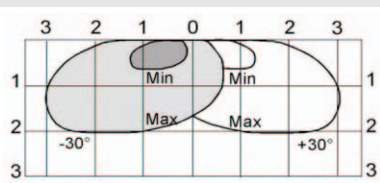




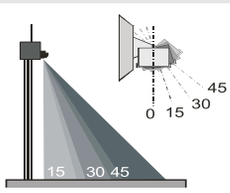
vertical angle:30˚,mounting height:2.2m

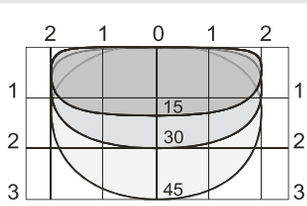
3 The lateral angle of the planar antenna determines the position of the sensing field





4 The vertical angle of the planar antenna determines the depth of the sensing field

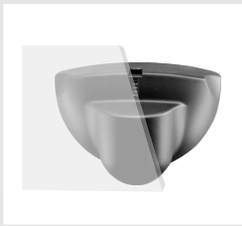




sensitvity:maximum

3 Installation tips

Avoid vibrations!



Do not cover the sensor!

Avoid moving objects in proximity of the sensor!

Avoid HF lamps or fluorescent lighting in proximity of the sensor!

Avoid touching electronics!

4 Troubleshooting

SYMPTOMS	PROBABLE CAUSES	CORRECTIVE ACTION
The door will not open and no red LED lights up	The sensor Power is off.	Check the Wiring and the power supply.
The door opens and closes constantly.	The sensor "sees" the door moving. When closing, the door creates vibrations picked up by the sensor.	Increase the tilt angle and/or reduce the sensitivity. Make sure that the sensor is correctly fixed. Reduce the sensitivity.
The door will not close. Red LED is OFF.	ON-OFF switch at door control is in wrong position or faulty. Improper output configuration.	Make sure that the ON-OFF switch for the door is in the ON or AUTOMATIC position.Check the output configuration setting on each sensor connected to the door operator.
It rains and the sensor detects for no apparent reason.	The sensor detects the motion of the rain drops	Reduce the sensitivity.

5 Technical specifications

Technology	: microwave and microprocessor
Transmitter frequency	: 24.125 Ghz
Transmitter radiated power	: <20 dBm EIRP
Transmitter power density	: <5mW/cm^2
Maximum mounting height	: 3m
Tilt angles	: 0° to 90° vertical and–30° to+30° lateral
Detection field (mounting height=2.2m)	: 4m(W)x2m(D)
Detection mode	: motion
Minimum speed	: 5cm/s(measured in the sensor axls)
supply voltage	: 12V to 24V AC/DC+30%–10%
Mains frequency	: 50 to 60 Hz
power consumption	: <2W(VA)
Output relay(free of potential change-over contact)	
Max,contact voltage	: 42V AC–60V DC
Max,contact current	: 1A(resistive)
Max,switching power	: 30W(DC)/60VA(AC)
Hold time	: 0.5s
Temperature range	: –20℃ to+55℃
Degree of protection	: Ip54
Norm Conformity	: R&TTE 1999/5/EC;EMC 89/336/EEC
Material	: ABS
Color of housing	: black smoked,aluminium finish
Dimensions	:120mm(W)x80mm (H)x50mm(D)
Weight	: 0.215kg
Length of cable	: 2.5m

ELECTROSTATIC DISCHARGE(ESD)PRECAUTIONS

Circuit board components are vulnerable to damage by electrostatic discnarge (ESD).ESD can cause immediate or subtle damage to sensitive electrnic parts.An electrostatic charge can build up on the human body and then discharge whenyou touch a board.A discharge can be produced when walking across acarpet and touching aboard,for example.Before handling any board,make sure you dissipate your body's charge.