UHF RFID Reader:

Comply with ISO18000-6B, 18000-6C(EPC G2) protocol

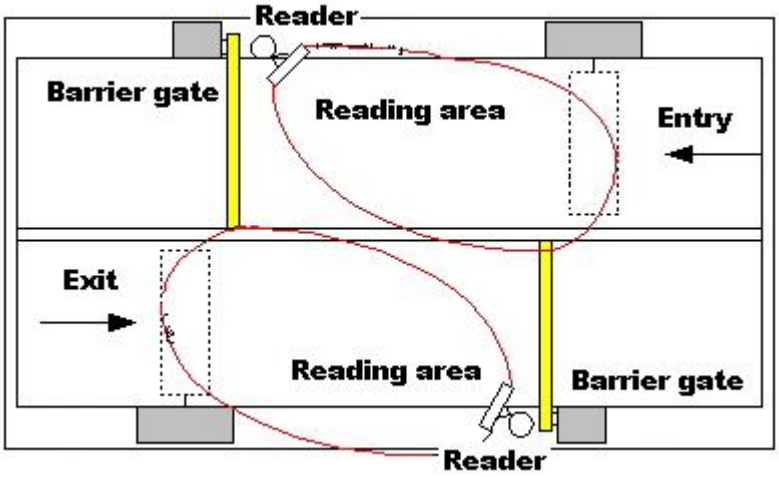
GKA9805: 2-9 meter reader

Technical parameters ：

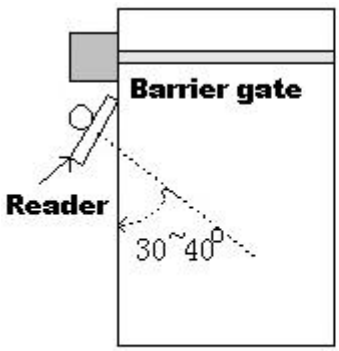
Module Number	GKA9805: UHF RFID Reader(2-9m)
Frequency	FCC ISM 920.125~924.875MHz
Housing	Stainless steel(AISI304), housing with ABS cover
Protection	IP65
Frequency hopping	Fixed Frequency or FHSS or Software Programmable
Frequency channels	Each channel spacing at 1000KHz and could be customized
Working mode	Timing reading, triggering, software command, or customized
Communication Ports	RS232, RS485, Wiegand 26 bits & 34bits, or TCP/IP, USB port can be added(Specify the application before customization)
Radio frequency power	0-30dBm, programmable in software
Encryption	Programmable
Input	1 dry contact/TTL input(Optional function)
Output relay	1 relay output(NO, NC, COM), 10VDC 1A(Option function)
Antenna Gain	Circular polarization inbuilt antenna, 8dB for GKA9805
Object speed	Up to 100km/h at appropriate distance
Multiple tags reading	Support 10-20 tags reading at 1 time(40% of the distance of 1 tag reading)
Encryption	Programmable in software
Support protocol	ISO18000-6B & ISO18000-6C(EPC G2)
Reading card speed	Reading 64-bit ID number less than 6ms
Max Power of antenna	<4W
Antenna impedance	50Ω
Lightning protection	DC Grounded
Power Consumption	+12V DC
Operation Temp	Working Temp: -35°~ +75 ° Storage Temp.: -45°~ +95°
	GKA9805: 440×440×70mm, 3.2kg (packaging weight: 8.0kg)
Programming support	Provide SDK and demo software, support VC++, VB, Dephi, C++Builder
Certificate	FCC certificate(see document)

Solution for vehicle management:

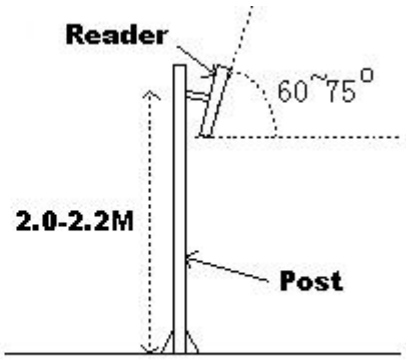
Reader's location diagram



Reader's angle adjustment

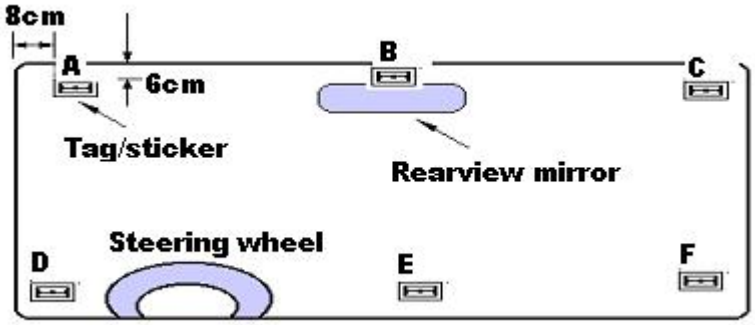


Horizontal level



Vertical level

Tag/sticker's location on windscreen(with no anti-sunshine film)

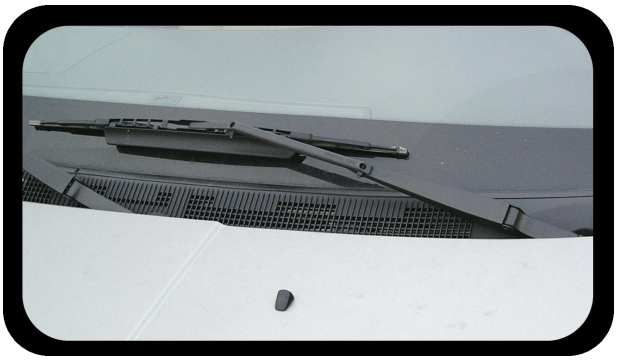


Description:

1. The tag/sticker should be attached on the location close to the reader installed on lane,
2. For small vehicle(car) use, location A, B, C is preferable,
3. For big vehicle(truck) use, location D, E, F is preferable

Supplement:
For windscreen with anti-sunshine film,

1. For pre-attached windscreen film, there is a 120*70mm reserved cut for use of RFID tag at location B, tag/sticker could be attached here,
2. For after-attached windscreen film, user could require installer to make a cut (120*70mm) at location A, B, C, D, E. F, and attach tag/stick here,
3. Or metal tag could be recommended, such as plate tag, or windshield wiper tag (mounted on windshield wiper),



4. Or manually show the tag/card to the reader as shown as picture below,

Correct

Wrong

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

“This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.”