CALL '2' OPEN USING YOUR MOBILE PHONE

Features

- Ready to operate Straight from the Box!

- O/P Changeover Contact 1.2KW

- 'White List' upto 10 Tel No's

- Signal Strength Indication

- Internal Antenna

- Waterproof Enclosure IP68
- (Pressure Washer Proof)

- Accepts all major SIM Cards

- 9-24Vdc Operation

- Optional Battery Backup

- Optional Configuration by SMS Text Messages

Easy Operation

1. User Calls C2O
2. C2O Rejects call
3. If valid C2O operates Output

Operation

Call '2' Open provides a relay changeover contact which can operate gates / barriers etc. When C2O receives a telephone call, the relay contacts are operated.

Because C2O rejects the call no call charges are incurred.

C2O can operate from any Tel number, or, from only those with Caller ID on the 'White list'

FM76316

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1. Insert SIM card

Insert SIM card before applying power (standard 3 Volt SIM cards only).

Ensure SIM card is blank
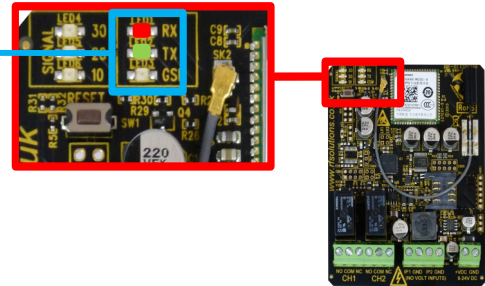
Ensure the SIM card has not been PIN Code Protected!

Beware of pay-as-you-go SIM cards which require regular call activity to remain active.

RF Solutions recommends O2 / Vodafone. Problems have been identified with Orange SIM cards which cannot be guaranteed

Insert Simcard Here

Changeover Contact Terminals

Power Connection 9-24Vdc
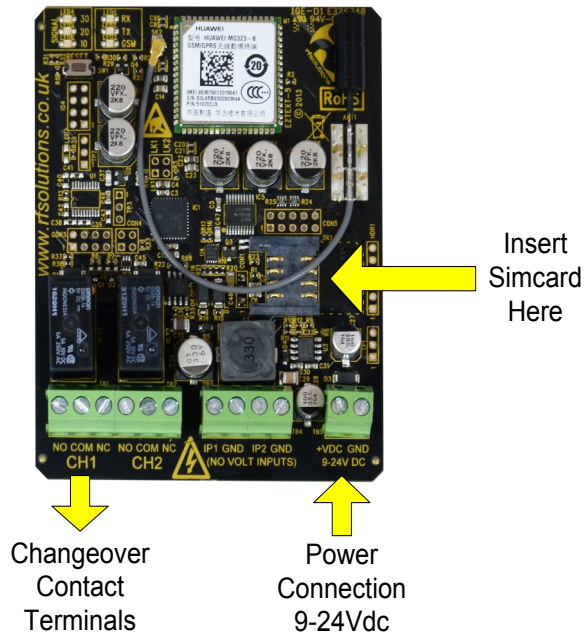
2. LED Indication at Startup

Loging onto Network (Tx/Rx alternate flash)					
RX	🔴	⬜	🔴	⬜	🔴	⬜
TX	⬜	🟢	⬜	🟢	⬜	🟢

Error! (All Flash ON / OFF together)					
30	🔴	⬜	🔴	⬜	🔴	⬜
20	🔴	⬜	🔴	⬜	🔴	⬜
10	🔴	⬜	🔴	⬜	🔴	⬜
RX	🔴	⬜	🔴	⬜	🔴	⬜
TX	🟢	⬜	🟢	⬜	🟢	⬜

Error - No GSM Service
1. Check SimCard
2. Check Antenna Connection

3. LED Indication after Startup (Normal Operation)

Signal Strength		
Good	OK	Poor
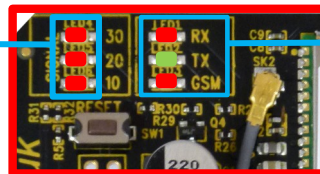
Activity LED's	
RX	Receiving an SMS
TX	Transmitting an SMS
GSM	Intermittent Flash GSM Healthy

Optional Waterproof Power Supply

Resin Potted Unit (IP67)

Size 83 x 37 x 30mm

Input 100-240Vac Output 12Vdc 1A

Wall Fixing Lugs

Supplied with 3.3m lead

Part NO PSU-12V1A-IP

Optional External Antenna

Using an external antenna can provide a better signal reception than the internal antenna if required. Using Cable adaptor CBA-UFLSMA-1 provides an SMA Bulkhead connector into which many alternative GSM antennas may connect

Antenna Connection

Integral Antenna

Cable Part No:
CBA-UFLSMA-1
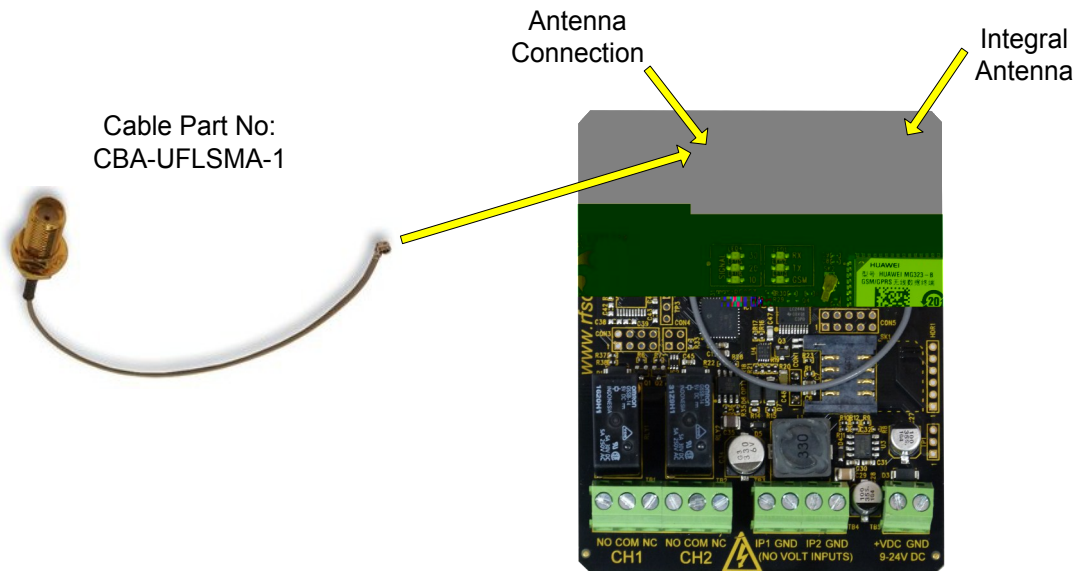
Ordering Information

PART No	Description
C20	Call2Open Controller IP68
PSU-12V1A-IP	Power Supply IP67
CBA-UFLSMA	Cable assy for external Antenna

C20

Sending Text Commands (These are optional)

Command	Description
Unit Password (UPW)	The default password is 1234 .it can be changed to any combination of letters/numbers from 4 to 10 characters. This command that must be sent within 5minutes from initial power up. If for any reason the unit password is lost or miss-entered, remove all power to the unit for 1 minute, then start again. Command Example: UPW#1234 (Sets the password to 1234) Response: Unit Password Set ***NOTE ONLY THIS COMMAND IS CASE SENSITIVE!***
Change Output delay time (OPDLY1)	By default this is pre-set to 1 Second operation Command Example: 1234#OPDLY1#2 (Sets the changeover contacts to operate for 2 seconds) The time of the output can be set from 1 to 65500 seconds, or If is set to '0', then the output will latch on.
Unit Identity (UID)	This sets the 'identity' of the C20 unit, and is included in any response text from the C20 Command Example : Password#UID#Gate2 Sets the identity of this C20 to Gate2
Report GSM Signal Strength (SIGQ)	Reports C20 GSM signal strength as; 'POOR' (consider alternative antenna) 'OK', or 'Good' Command Example : Password#SIGQ Response : Signal is Good

C20

Additional Commands for using the White List

Command	Description
Add Tel No to White List *(C20NUM)*	Adds a telephone number (caller ID) to the white list that C20 will accept. Note the C20 can store up to 10 cell phone numbers per input. Setting * as a number will allow any number access Command Example: 1234#C20NUM#1#* (Allows any telephone to activate C20) Command Example: 1234#C20NUM#1#0123457891 (Adds the telephone no 01234 57891 to position 1 of the white list)
Report the White List *(C20NUM?)*	Report C20 White List of Telephone numbers which are accepted Command Example: 1234#C20NUM?
Delete a number in the White List *(C20NUMDELn)*	This command Deletes a telephone numbers within the White list Command Example: 1234#C20NUMDEL#1 Deleted telephone number in position 1 of the list

Technical Specifications

Storage Temperature: -10 to +70° Celsius. Operating Temperature: 0 to +55° Celsius.
C2O Enclosure Rating   IP68
C2O Dimensions   130 x 112 x 42mm

Electrical Characteristics	Min	Typical	Max	Dimension	Notes
Supply Voltage	11		24	Vdc	
Supply Current for C2O: Idle Operating	35 200	44 370	100 1000	mA mA	1 2
Mains rated Relay Rating (230Vac)		5	12	A	3

Notes
1. Refers to maximum supply current required with all components idle.

2. Refers to peak supply current required with all components operating. In practice internal reservoir capacitance limits the instantaneous peak current to less than 500 mA.

3. The relay contacts in this unit are for functional switching only and must not be used for isolation purposes.

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