

# ORC E2V3 / ORC E3V3 / ORC E5

## Quick connection Diagram v2.0

### Contents

Introduction.....	2
ORC E- V2 range connection overview .....	2
Door Panel Connections .....	3
12V DC Power .....	3
Network Connection .....	3
Optional.....	3
Wiegand reader to Access Controller.....	3
Local Door Contact / Press to Exit .....	4
ORC-UM-R .....	5
Brief Description.....	5
Technical Characteristics.....	5
Timer (Relay 1).....	5
Unused Wires .....	5
Terminal Connections.....	6
Standard Wiring.....	6
RS485 Wiring .....	6
Exit Wiring .....	6
Relay 1 options .....	7
Access Control / 3 <sup>rd</sup> Party devices .....	7
Fails Safe.....	7
Fail Secure.....	7

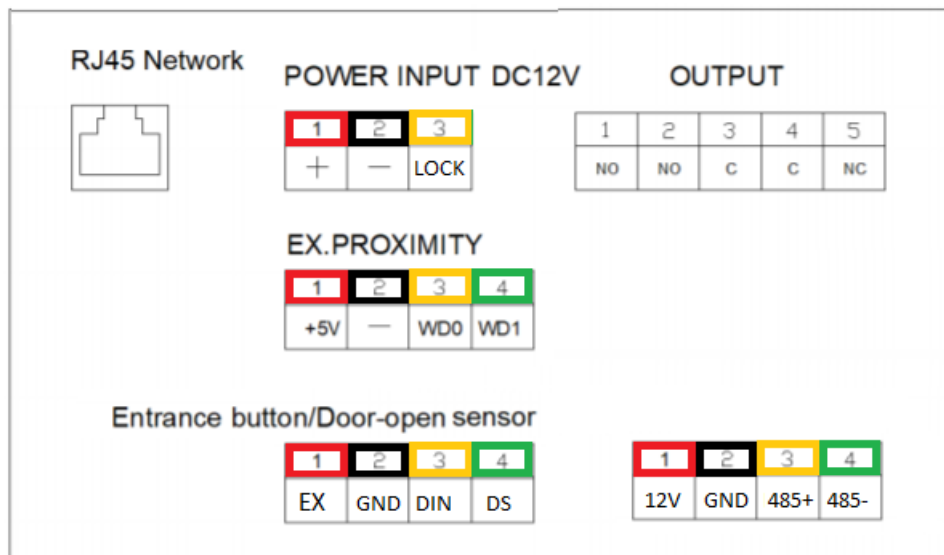
ORC-E-V3\_QUICK\_CONNECTION\_V2

## Introduction

Please note, this guide is intended for installation and commissioning partners.

For more information visit [www.orcomm.co.uk](http://www.orcomm.co.uk)

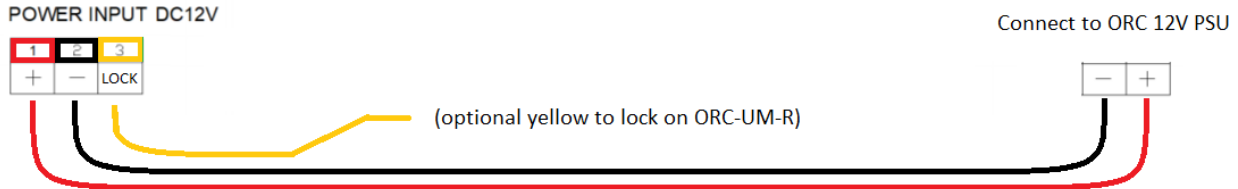
## ORC E - V3 range connection overview



## Door Panel Connections

### 12V DC Power

Connect the 12V DC power Supply to the input of the Door Panel.



### Network Connection

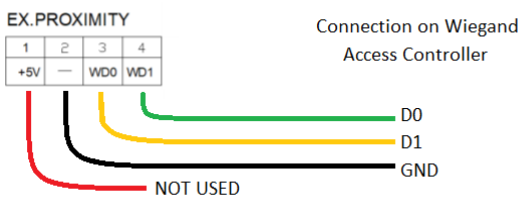
Connect the Ethernet to a network switch



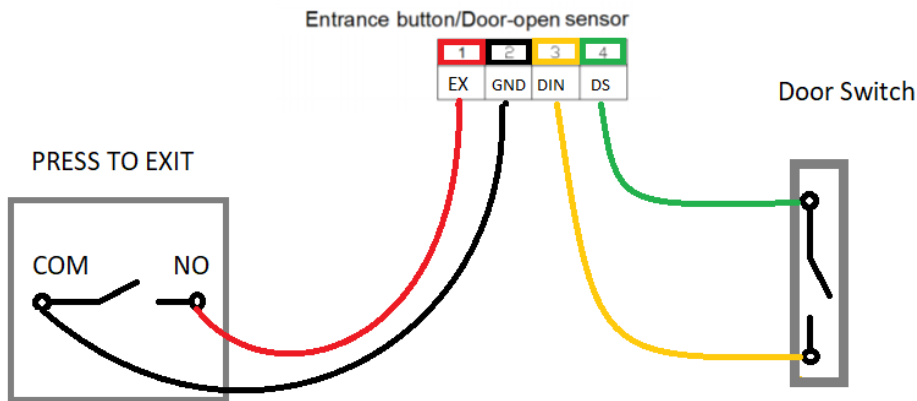
### Optional

#### Wiegand reader to Access Controller

Connect the GND, WD0 & WD1 to GND, D0 and D1 of the Access Controller (Wiegand 26-bit)



Local Door Contact / Press to Exit



# ORC-UM-R

## Quick Connection Diagram

### ORC-UM-R

#### Brief Description

The ORC-UM-R is a multipurpose Relay designed to work along side Orcomm external call panels, ORC-E2, ORC-E3, ORC-E5.

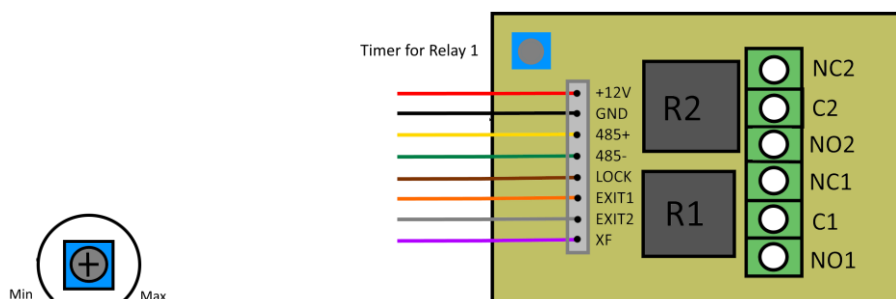
When the door release command is pressed on the intercom screen, the Door Panel will send a signal either through LOCK or RS485. Relay 1 will operate for a time. Note Timer for Relay 1 can be changed via the Potentiometer.

#### Technical Characteristics

- Secure By Design (Must be wired secure side of Door – i.e. Riser cupboard)
- 12V DC (1W)
- Working Temperature: -40 ~ +70 C
- Humidity: 20 ~ 80%
- Size: 115 x 58 x 34 mm
- Relay Max
  - 1A (230V AC)
  - 5A (24V DC)
  - 10A (12V DC)

#### Timer (Relay 1)

Relay 1 - Timer adjustment – Potentiometer



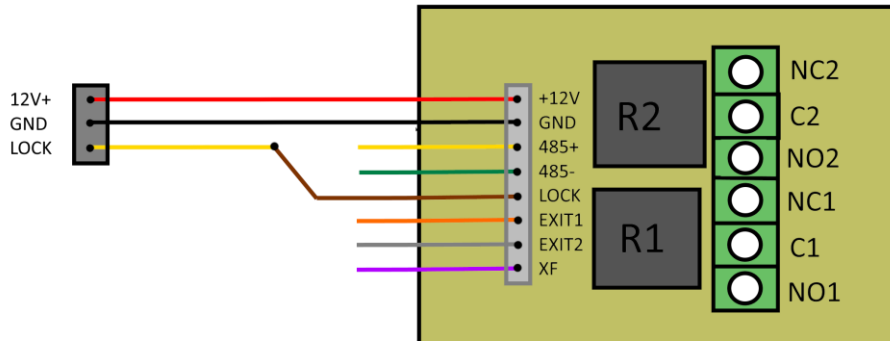
#### Unused Wires

Warning all wires unused must be insulated to stop accidental triggering or damage to the ORC-UM-R and/or External Door Panel.

## Terminal Connections

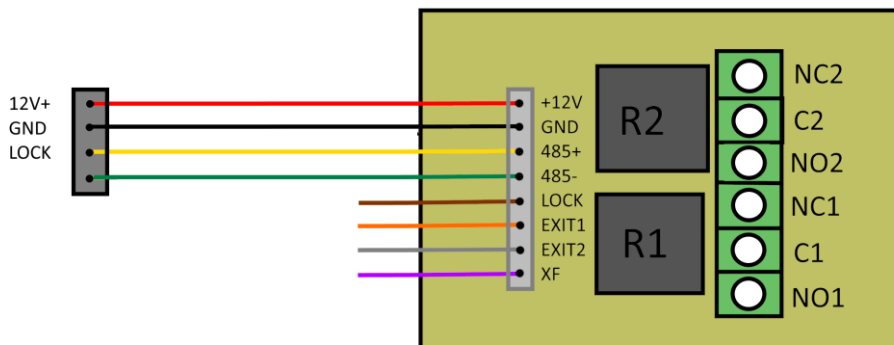
### Standard Wiring

Connect the ORC-UM-R with 12V, GND and LOCK between Door Panel and Riser



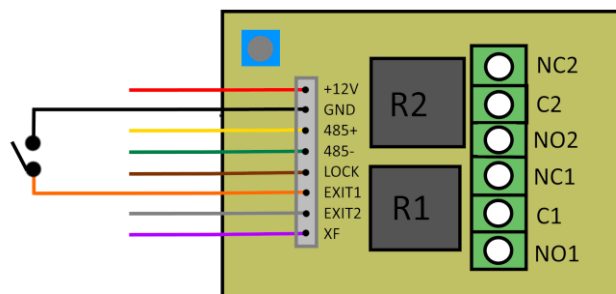
### RS485 Wiring

Connect the ORC-UM-R with RS485 when installation requires encryption between Door Panel and Riser (i.e. Secure By Design)



### Exit Wiring

Temporarily connect "Exit 1" terminal to "GND" to start Relay 1 Timer

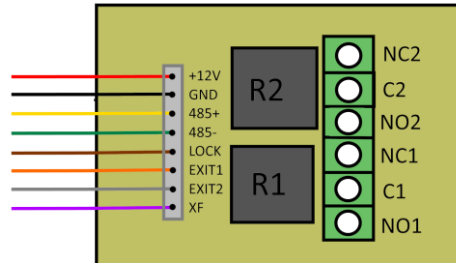


### Relay 1 options

There are several options to wire the relay contact terminals.

#### Access Control / 3<sup>rd</sup> Party devices

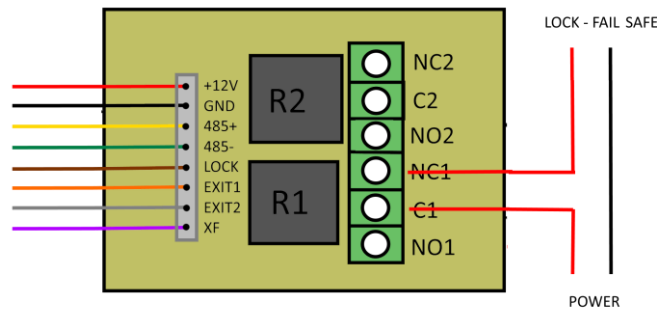
The below diagram will send a short signal (close contact on trigger). Commonly used with Access Controllers (GND and PTE), or IN1 & IN2 on Automatic door / gates.



#### Fails Safe

The below diagram will open the relay contact on trigger from Video Door Entry System. Commonly used with Fail safe locks (Remove power to open).

Note ORC-UM-R (is designed for fire applications – thus NO1 = normally closed)



#### Fail Secure

The below diagram will close the relay contact on trigger from Video Door Entry System. Commonly used with Fail secure locks (Power to open).

Note ORC-UM-R (is designed for fire applications – thus NO1 = normally closed)

