



## Aperio/HES KS200 and ACTpro – Dual Reader Connection

This document describes how to install 2 x KS200 Server Cabinet Locks on to an ACTpro system providing reading of cabinet access from either the front or rear door. In this scenario the Entry reader would represent the front door and Exit reader, the rear door. Allowing clear reporting of which door was opened, but from a single controller or door station and as such reducing installation costs.

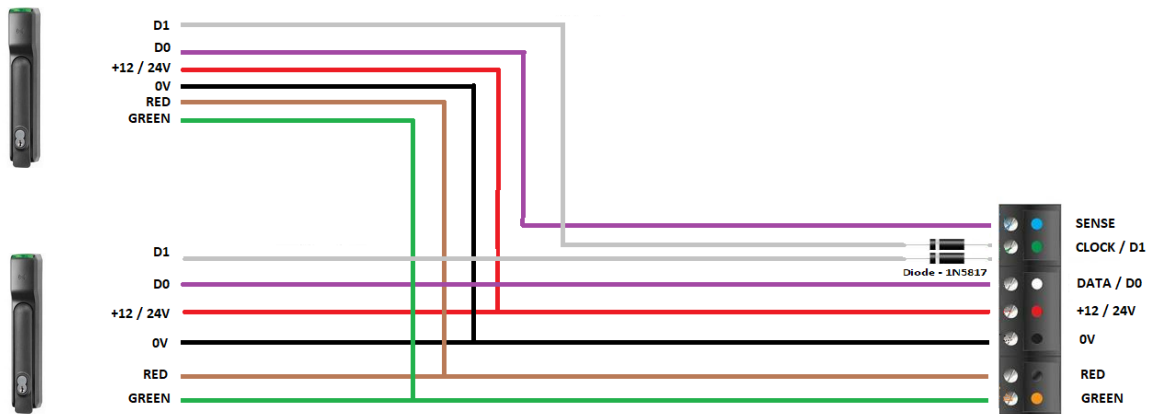
For the solution to work Diodes **MUST** be fitted on the D1 data lines.

This scenario is applicable to both the 1500e controller and 100e door station, and was tested on the following hardware iterations:

- 1500e – PCB Rev – 1.6
- 100e – PCB Rev – 2.1

## 1. KS200 Connection to ACTpro Controller/Door Station

If 2 x KS200's are to be connected to a 1500e/100e then a **1N5817** diode will need to be fitted to the D1 data line of each reader.



### Notes

- Diodes are required because the KS200 already has pull-up resistors built in, and when two readers are paralleled, this enhances the pull-up effect. With the enhanced pull-up effect, the data line voltage doesn't drop low enough to register as a signal.
- The Diode needs to be fitted on the D1 data line from **both** readers.
- A Diode is NOT required on the D0 data lines.
- The Diode in use is **1N5817**
- If a single KS200 were to be used then no Diode would be required.
- Depending on the access cards/fobs used, different card formats may be required in ACTpro.  
The KS200 uses an embedded multiclass reader that is capable of many different formats and as such this would need to be investigated on a case by case basis.

# SUPPORT INFORMATION



If you have any questions, please contact our Technical Competence Centre.  
Contact details can be found on our website.

