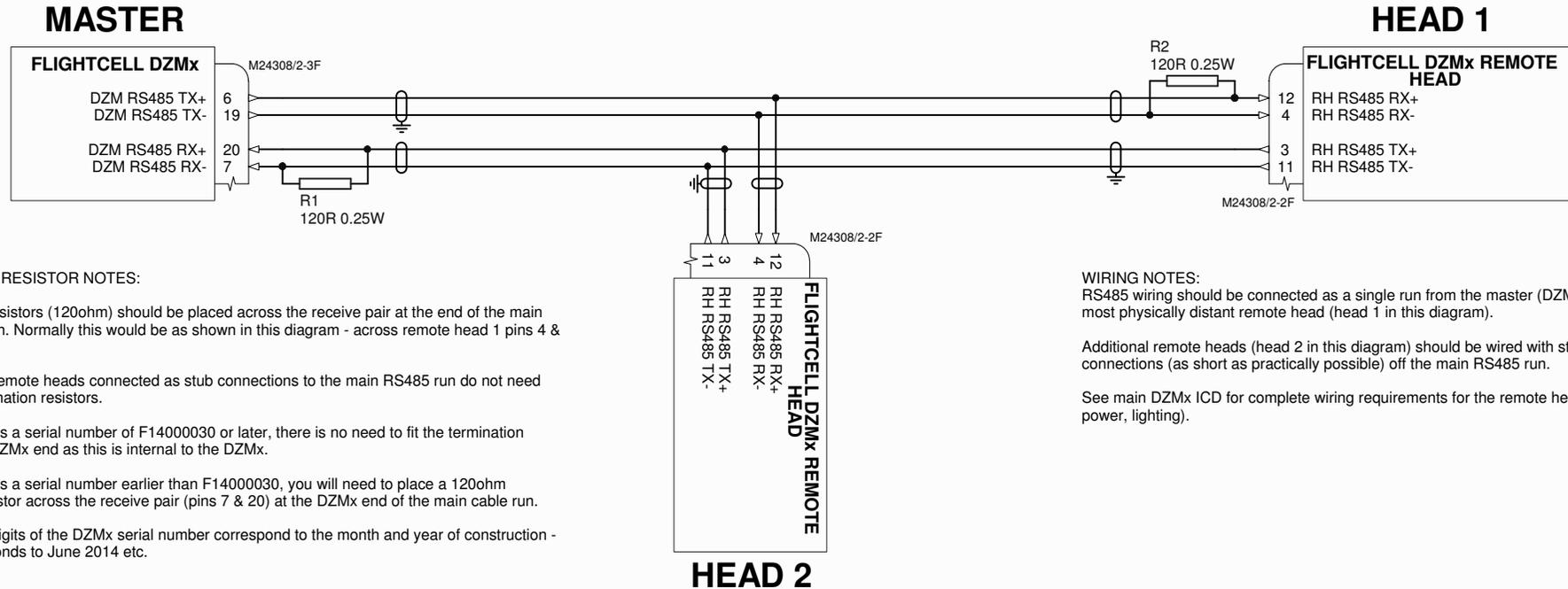


DZMx Civilian Interconnect Drawings

Multiple Remote Head Interconnections



TERMINATION RESISTOR NOTES:

A termination resistors (120ohm) should be placed across the receive pair at the end of the main RS485 cable run. Normally this would be as shown in this diagram - across remote head 1 pins 4 & 12.

Any additional remote heads connected as stub connections to the main RS485 run do not need additional termination resistors.

If your DZMx has a serial number of F14000030 or later, there is no need to fit the termination resistor at the DZMx end as this is internal to the DZMx.

If your DZMx has a serial number earlier than F14000030, you will need to place a 120ohm termination resistor across the receive pair (pins 7 & 20) at the DZMx end of the main cable run.

The first three digits of the DZMx serial number correspond to the month and year of construction - so F14 corresponds to June 2014 etc.

WIRING NOTES:

RS485 wiring should be connected as a single run from the master (DZMx) to the most physically distant remote head (head 1 in this diagram).

Additional remote heads (head 2 in this diagram) should be wired with stub connections (as short as practically possible) off the main RS485 run.

See main DZMx ICD for complete wiring requirements for the remote heads (e.g. power, lighting).

NOTES:

1. ALL CABLES SHOULD BE 22AWG STRANDED, SCREENED WHERE INDICATED e.g. M27500/-24SB2T14.

2. IT IS RECOMMENDED THAT THE POWER GROUND CONNECTIONS BE RUN SEPARATELY TO A SINGLE EARTHING POINT, SO AS TO MINIMISE GROUND LOOPS

3. SYMBOL DESIGNATIONS

SHIELDED PAIR
SHIELD TERMINATED TO DC GROUND

SHIELDED PAIR
SHIELD FLOATING

UNIT GROUND

WIRE SPLICE CONNECTION



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| | | | | |
|----------|--|-----------|----------------------|--|
| Product: | Flightcell DZMx | Sheet: | Dual Remote Head ICD | 1 of 1 |
| Issue: | 1.0 | Drawn By: | James Glasgow | |
| 2.0 | Added notes on termination resistors. (C/N FCN0616). | 25/06/14 | JG | |
| 1.0 | Document created. (C/N FCN0611). | 19/06/14 | JG | |
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