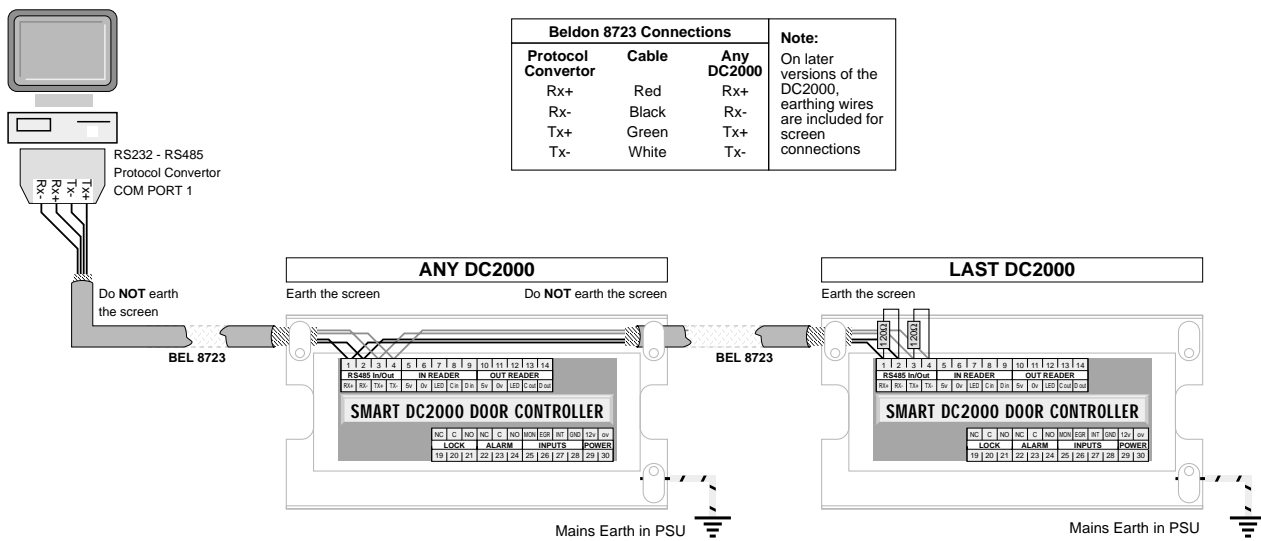


Modification to SRS Smart.net earthing and screening to improve communications speed and reliability.

The following datasheet will describe an improved connection method for the Smart.net screening arrangement. It is an improvement that will effect both the performance of the network and its reliability against communication chip damage. This datasheet is only valid for DC2000 door controllers supplied before July 2000 as from this date all DC2000 stock has been modified to achieve the same goal.

Figure 1, shows the old scheme as detailed in the product instructions.



It shows that the DC2000 chassis is used as the earthing point for the mains earth bond, screens from the network entering the controller and for the readers(s). Whilst this diagram is correct for products purchased on or after July 2000 improvements can be made for older installations that are experiencing communications problems or communications chip damage.

Fig2, shows a new arrangement that isolates any connections to the chassis and utilises a connector block isolated from any other connections. In brief, the screen from the network and the reader(s) is connected directly to the mains earth coming from the PSU for that DC2000. Under no circumstances must this node come into contact with any other connections. In effect the reader & network screens are not connected to any part of the system as a whole.

Fig 2: Modified earthing and screening arrangement for older networks.

