

DATAPRO CONTROL OF THE 'FOR HIRE' ROOFLIGHT ON A TAXI

The facility exists whereby the DataPro can control the operation of the 'For Hire' light on a vehicle. This is accomplished via the DataPro Accessory Connector (optional second lead fitted to the data terminal). Connections are made to an additional vehicle mounted relay and to the taximeter.

The DataPro will automatically sense when the taximeter is set running to report a passenger On Board (POB) condition to the data system, and will automatically turn off the rooflight when a driver accepts a job.

A taximeter usually controls the 'For Hire' sign lamp by an internal relay or solid state switch. The output for the lamp will either be 'Pull To Ground' or 'Switched 12V' depending on the taximeter fitted. The DataPro has two possible General Purpose input pins to cater for either configuration.

Please note that pin numbers quoted in this document refer to the Accessory Connector lead D-connector and not the lead that connects to the radio.

'PULL TO GROUND' – GENERAL PURPOSE I/P, D-CON PIN 3

If the taximeter configuration is 'Pull To Ground', its output pulls to ground when the meter isn't running to illuminate the 'For Hire' sign and usually goes high impedance when the meter is running (i.e. the rooflight goes out).

The DataPro interprets the voltage level on D-Con pin 3 (internal pullup) in different ways according to a parameter set in its configuration menu. The 'GP Input' parameter should be set to '4 Hire' to correctly interpret a pull to ground on D-Con pin 3 as a 'For Hire' condition.

'SWITCHED 12V' – GENERAL PURPOSE I/P, D-CON PIN 7

If the taximeter configuration is 'Switched 12V', its output supplies +12V when the meter isn't running to illuminate the 'For Hire' sign and usually goes high impedance when the meter is running (i.e. the rooflight goes out).

The DataPro interprets the voltage level on D-Con pin 7 (internal pulldown) in different ways according to a parameter set in its configuration menu. The 'GP Input' parameter should be set to '4 Hire' to correctly interpret 12V on D-Con pin 7 as a 'For Hire' condition.

CONTROL OF 'FOR HIRE' LAMP – ADDITIONAL RELAY

The current handling of the DataPro internal relay is insufficient for most rooflights on taxis and therefore an additional relay is fitted to the vehicle to interrupt the connection between the taximeter and the 'For Hire' sign.

The purpose of the DataPro's internal relay is to switch the supply to the coil of the additional relay so that the DataPro can control the rooflight. Note that the installation described in this document only allows the DataPro to turn *off* an illuminated 'For Hire' sign or to prevent it from being illuminated - the taximeter must still be installed in order for the sign to operate.

ADDITIONAL RELAY SUPPLY – D-CON PIN 1

This pin is a +12V supply provided by the DataPro. Maximum output current is 2A.

This supply is connected to one side of the coil of the additional relay.

DATAPRO RELAY CONTACT 'A' – D-CON PINS 10 and 12

These two pins are internally connected together in order to share the current carried by the relay inside the DataPro. When the internal relay is energised, contacts 'A' and 'B' are closed.

D-Con pins 10 and 12 are both connected to the other side of the coil of the additional relay.

DATAPRO RELAY CONTACT 'B' – D-CON PINS 13 and 15

These two pins are internally connected together in order to share the current carried by the relay inside the DataPro. When the internal relay is energised, contacts 'A' and 'B' are closed.

D-Con pins 13 and 15 are both connected to ground (accessible on D-Con pins 4 and 9)

ADDITIONAL RELAY WIRING

