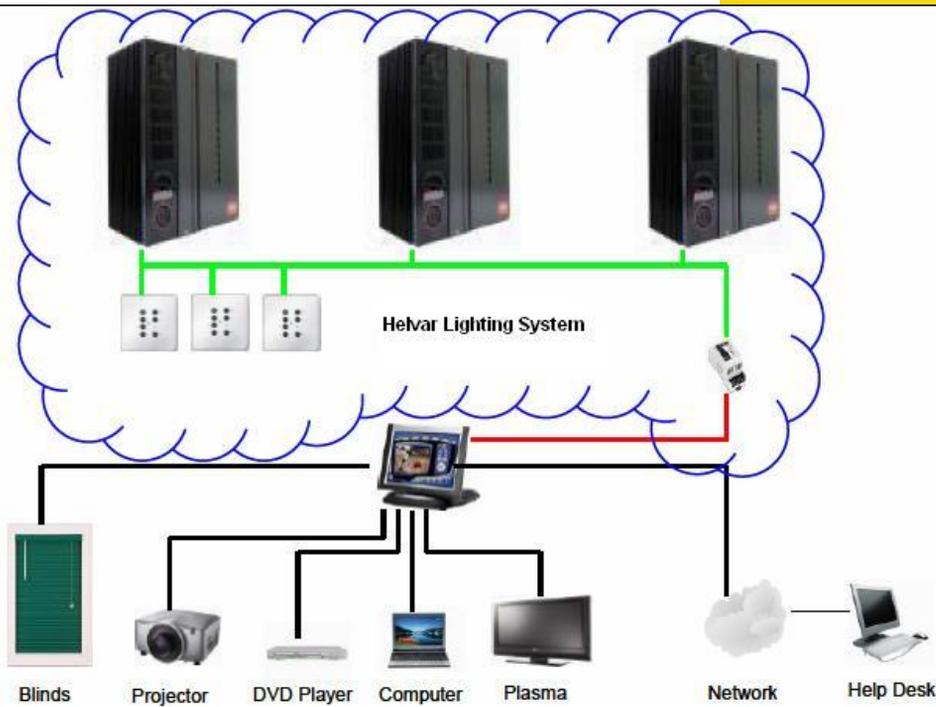


## Interfacing with RS232 Information



- Interface with Helvar 503AV
- Powered by DALI Bus
- No DALI address used
- Standard RS232
- Bi-directional and Auto-synchronising
- No handshaking or control is used

### Further Reading:

Data Sheet	D004412
Installation Sheet	7860168
Guide DALI	7860076
Code list DALI	7860077
Guide 900	D004458
Code list 900	D004102
Guide 910/920	D004457

## Overview

RS232 interfacing provides a means of interconnection between a 3rd party source such as the building management computer or an audio visual control panel to the Helvar lighting system.

The communication is bi-directional via a standard RS232 port. The Helvar interface itself is functionally passive and serves only to link the two systems and translate the respective communications messages.

The interface module's power requirements is derived from the connecting DALI system, with no power taken from the RS232 connection. No DALI address is used and therefore any number of interfaces may be connected to the same DALI network, being limited only by the bus supply capacity.

Opto-coupling is used for the internal link of the two systems to provide double-insulation between them, and the interface is a DIN-rail mounted module suited to fixed installation applications.

## Messages

The byte format must be sent in 19,200 baud rate, 8 data bits, no parity and 1 stop bit. There is no control or handshaking used.

The data transfer to the interface is auto-synchronising. An incomplete or damaged string of message bytes will be discarded, subsequent bytes will be considered a new message string.

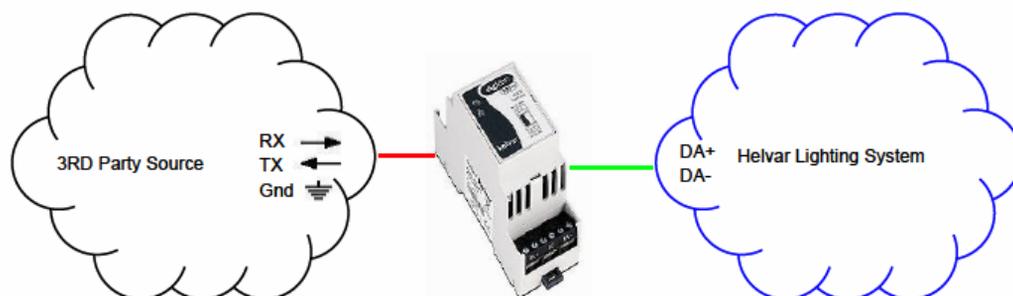
Messages are handled singularly. Passing a message to the interface will generate a reply either as a message acknowledgement or the returned data to a query request. Subsequent message's can not be passed to the interface until after the reply; an attempt to do so will result in its loss.

Each transmitted message will result in a single return message. The normal transmitted message type is 3 bytes; 4 or 5 for special types. The returned message can be 2, 3 or 4 bytes in size.

All messages present on the system which are not generated by the interface are automatically returned from the interface. This allows complete monitoring of all activity. Other than the byte count, all messages are returned as seen by the interface.

## Control Flow

RS232 Data Signal —  
 DALI Control Pair —



Message Format:-  
 Baud Rate - 19200  
 Data Bits - 8  
 Parity - None  
 Stop bits - 1

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