

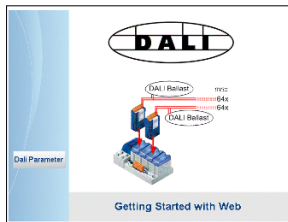
DALI communication library

Commissioning and servicing made easy

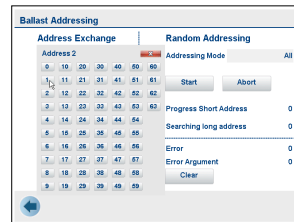
When initialising, the “DALI F26x Driver” FBox is positioned once only when the program starts. The “Configuration Manager” FBox then parameterises all the DALI participants on the bus. The FBox also provides predefined symbols for further use, e.g. in S-Web. The parameters can also be used securely in the PCD file system. The “Backup to Flash” FBox stores all DALI parameters in parallel in two files. This guarantees the retention of data in PCD systems with no batteries, e.g. in the Smart RIO PCD3.T666, required.

When commissioning DALI systems, it is usual to install all DALI participants then issue the addresses and set the parameters via the DALI commissioning software. The “Random addressing” and “Exchange addresses” modules are in the Saia PG5® – DALI library.

Parameterisation takes place after the addressing process using the “Configuration manager” FBox. Group and scene parameters can alternatively be set using the “Edit Groups” and “Edit Scene Levels” FBoxes to provide a better overview.



Web visualisation for commissioning



Operation

The “Send Command Inputs”, “Send Command Online”, “Send Power Control” and “Send Scene” FBoxes are available for transmitting DALI commands. These FBoxes cover all standard DALI commands. The receipt of master telegrams is also supported by the “Receive Commands” and “Receive Raw” FBoxes. “Receive Raw” is useful for receiving non-standard telegrams. The raw data can then be processed further in the application program. The lamp status can be requested using the “Read Status” FBox. The “Query numeric” FBox provides the application program with access to a further 21 DALI standard data points such as the current light level. The “Read Memory” FBox is used to read any data from a DALI device. It is therefore possible to request brightness and presence information from one sensor, which would not be accessible with the DALI standard methods.

DALI controller with PCD1.F2611-C15

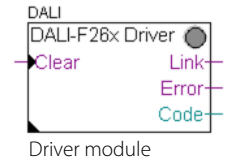
There are also different FBoxes within the “DALI E-Line Driver” rubric for commissioning and operation for this interface.



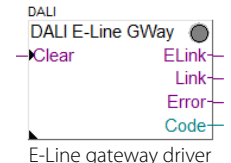
The current DALI standard does not guarantee a genuine multi-master function. Multi-master capable products such as those of Tridonic, Osram or Zumtobel are either based on the new draft DALI extension E DIN 62386-103 (2011-08) or accept the loss of telegrams in bus collisions. Permanent polling, e.g. of the status, should therefore be avoided in “multi-master” projects. The maximum number of DALI master devices can be restricted to 8 units, for example, depending on the product and hardware manufacturer.

Saia-Burgess Controls AG
 Bahnhofstrasse 18
 3280 Murten
 Switzerland
 T +41 26 580 30 00
 F +41 26 580 34 99
 www.saia-pcd.com
 info.ch@saia-pcd.com
 www.sbc-support.com

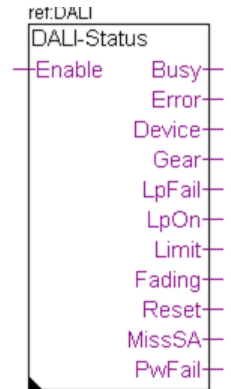
Honeywell B.V. | Honeywell NV
 Saia Burgess Controls
 Postbus 675
 2800 AR Gouda
 The Netherlands
 T +31 182 54 31 54
 F +31 182 54 31 51
 www.saia-pcd.nl
 info.bnl@saia-pcd.com
 www.sbc-support.com



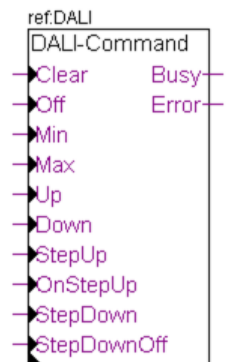
Driver module



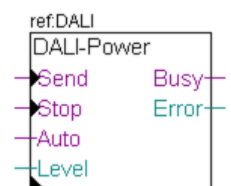
E-Line gateway driver



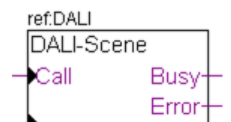
Status monitoring



Lighting control on/off, dimmable



Direct lighting control



Scene controller

