

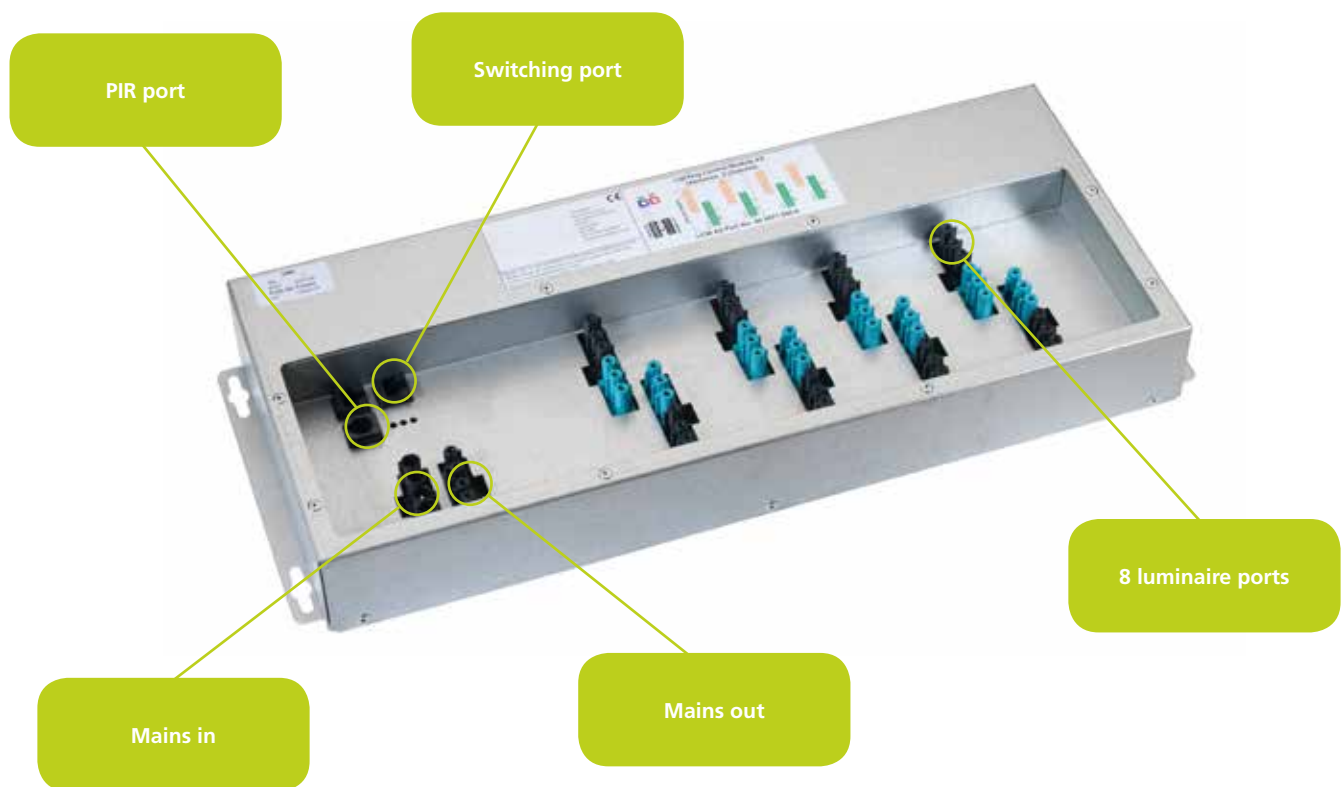
Canis lighting control module (LCM)



LCMs bring together the energy saving functionality of daylight linking where natural daylight is balanced with artificial lighting to not only reduce the energy required for lighting but also making the most of the daytime light as well offering two linked channels. The units are simple to install and can be re-programmed as and when your needs may change in the future. The system can be used to control all types of lighting – fluorescent, low voltage and mains voltage and is the perfect solution for the connection of luminaires to either presence, absence or conventional switches with the added feature of daylight linked dimming and SELV switching.

Features

- Two linked channels
- Manual Switching, Presence or Absence Detection
- DSI or Broadcast DALI
- Can be used with dimmable and non-dimmable lights via the LCMs integral relays
- Daylight Linked and manual Dimming available
- Dim down before switch off feature
- Flexible SELV Switching
- 8 luminaire outputs
- Built in emergency test facility
- No commissioning required – all LCMs are factory pre-programmed
- Strong Steel Casing
- 100% factory tested



Each CANIS unit is a 6 Pole Two Channel SELV Switching Module utilising SELV wall switches and/or SELV Combined Presence and Daylight Sensors to control the lights.



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Technical Data

- All LCMs require a 4 core feed to operate correctly
- Each LCM has two 4 Pole, two 6 Pole and two RJ45 ports assigned as follows:
 - * 1x 4 Pole Unswitched in for the power in feed
 - * 1x 4 Pole Unswitched out to enable other modules to be connected to the same circuit
 - * 1x RJ45 SELV Switch port for a SELV wall switch
 - * 1x RJ45 SELV Switch port for a SELV PIR
 - * 8 x 6 Pole luminaire outputs (4 for channel 1, 4 for channel 2)
- Multiple SELV switch points and/or PIRs can be added with the use of additional RJ45 leads and/or RJ45 3 way splitters
- Multiple switches can be installed with the use of the same RJ45 SELV wall switch drop lead
- DSI LCMs are designed to operate luminaires with Tridonic DSI ballasts and standard non-dimmable HF ballasts – all non-dimmable ballasts will switch on/off via the LCM's integral relays
- DALI LCMs are designed to operate luminaires with DALI ballasts and standard non-dimmable HF ballasts – all non-dimmable ballasts will switch on/off via the LCM's integral relays
- All LCMs are designed to control up to 20 ballasts per channel
- If used the master wall switch must be a 2-way centre off momentary push to make rocker type switch. This switch is used to manually dim the luminaires – pressing and holding the top of the switch will increase the output of the lights, pressing and holding the bottom of the switch will decrease the output of the lights. With absence LCMs this switch is used to turn the LCM on
- If used the channel switches must be momentary push to make type switches
- Emergency testing facility built in via a SELV wall switch (if required)

Conformity: Directive EMC 89/336/EEC
 Directive LVD 2006/95/EC
 Unit independently tested to comply with the requirements of:
 BS EN 60669-2-1:2004
 BS EN 60669-2-3:1999
 BS EN 55015:2006
 BS EN 61000 series of standards for EMC compatibility

IP Rating: IP2X

Connection via Wieland GST 18i 4 pole female, male locking/latching type, complying with the requirements of BS EN 61535 : 2009

Operating temperatures
 -5°C to 35°C

Supply voltage: 230 Volts AC +10%/-6% 50Hz
 Current Rating: 16Amp
 Relay Rating: 16A resistive & incandescent
 6A fluorescent
 3A Compact fluorescent
 3A Low Energy
 3A Ventilation Fans

All CANIS unit casings are manufactured from a galvanised material equal to DX51D G275 in accordance with BS EN 10142:2000. External mounting flanges are fitted to allow quick and easy installation within the ceiling void.

All CANIS units are 100% factory tested. To ensure traceability all CANIS units are labelled with the date of testing and a unique serial number both of which are also recorded electronically.

RJ45 Wiring: T568B CAT 5. 5/12vDC SELV

Code	Description
CANIS Range - 8 Port 2 Channel DSI Dimming LCMs	
P692070000.0	LCM P1 (DSI)
P692071000.0	LCM A2 (DSI)
P692072000.0	LCM W2 (DSI)
CANIS Range - 8 Port 2 Channel DALI Dimming LCMs	
P692075000.0	LCM P1 (DALI)
P692076000.0	LCM A2 (DALI)
P692077000.0	LCM W2 (DALI)

CANIS Types and available standard switching configurations

Manual Switching

Switching options available are:

- Manually Switched via a SELV Wall Switch. Manual dimming is available

Separate switches can be installed to enable the switching of each of the two channels; this could for example be used to allow the separate switching of the teaching wall lights in a classroom.

Manual dimming is available via the master wall switch.

Presence Detection

Switching options available are:

- Presence Detection via a SELV PIR with Daylight Linked Dimming (all lights)
- Presence Detection as above with the addition of SELV Wall switches to control each Channel and/or Manual Dimming for all channels together

An override on facility is built in to this module (operated via a SELV Wall Switch) which will hold all linked channels on together until released.

Separate switches can be installed to enable the switching of each of the three channels; this could for example be used to allow the separate switching of the teaching wall lights in a classroom.

Manual dimming is available via the master wall switch.

Additionally a 10% dim down before switch off facility is built in to warn the occupants of a room that the lights are about to switch off (reactivation by triggering the sensor).

Absence Detection

Switching options available are:

- Absence Detection via a SELV Wall Switch and a SELV PIR. Manual dimming is available
- Absence Detection with Daylight Linked Dimming (window row(s) lights only)

Separate switches can be installed to enable the switching of each of the three channels; this could for example be used to allow the separate switching of the teaching wall lights in a classroom.

Manual dimming is available via the master wall switch which is used to switch the LCM on and off.

Additionally a 10% dim down before switch off facility is built in to warn the occupants of a room that the lights are about to switch off (reactivation by triggering the sensor or by the SELV wall switch if the lights have been switched off).

