SOLSTYCE

Overview

The SOLSTYCE Series lighting communications modules provide gateway functionality between a DALI installation and BACnet/IP systems. The gateway enables the control and monitoring of DALI ballasts and drivers from BACnet/IP systems.

SOLSTYCE modules also allow the integration and configuration of the specific parameters for DALI occupancy and light sensors.

Features & Benefits

- Individually control up to 64 addressable drivers and ballasts per channel, and configure up to 16 lighting groups for each channel

- Configure up to 16 lighting scenes per channel to complement various room lighting requirements (projection mode, presentation mode…)

- The SOLSTYCE communication modules allow BACnet/IP controllers to control and monitor DALI drivers and ballasts

- The SOLSTYCE communication module acts as a BACnet/IP gateway allowing ECLYPSE Controllers or other BACnet/IP devices to perform subscriptions (COV, requests and reads/writes to its internal points)

- Easy DALI commissioning (addressing, grouping...) and DALI line scanning using a dedicated configuration tool

- SOLSTYCE supports DALI-2 light and occupancy sensors

- SOLSTYCE supports DALI/DALI-2 drivers

- Various DALI device types are supported.

  Drivers and ballasts (ECG):
    – DALI Fluorescent lamps (DALI type 0)
    – Self-contained Emergency lighting (DALI type 1)
    – LED modules (DALI type 6)

  Sensors (input devices):
    – DALI-2 Occupancy sensors
    – DALI-2 Light sensors

- Optimal solution for lighting control within large areas (atriums, entrance halls, cafeterias…)

- A complementary lighting solution to our Smart Room Control, which is ideal for enclosed spaces like offices

DISTECH CONTROLS™

Model Selection

Example: SCY-*2DALI*

Series	Model
SCY-	*1DALI* : 64 ballasts, 1 DALI channel, BACnet/IP
	2DALI : 128 ballasts, 2 DALI channels, BACnet/IP

Product Specifications

Power Supply Input (SCY-1DALI)

Voltage Range	100 – 240 VAC
Frequency Range	50 to 60Hz
Maximum Volt-Amps	6VA

Power Supply Input (SCY-2DALI)

Voltage Range	24VDC

Communications

Ethernet Connection Speed	10/100 Mbps
DALI Data Rate	1.2 kbps
BACnet Profile	BACnet Advanced Application Controller (B-AAC)
BACnet Listing	BTL
BACnet Interconnectivity	BBMD forwarding capabilities
BACnet Transport Layer	IP

Hardware (SCY-1DALI)

Ethernet	1 × RJ-45 10/100 Mbps Ethernet port
Connections	1 × DALI Port
Buttons	2 × push buttons (Button A and Button B)
LED Indicators	1 × Power (green)
	2 × Ethernet Link/activity
	1 × Dali (yellow)
	1 × RX (green)
	1 × TX (yellow)
	1 × Button A indicator
	1 × Button B indicator

Hardware (SCY-2DALI)

Ethernet	1 × RJ-45 10/100 Mbps Ethernet port
USB Connections	1 × USB Type-A 2.0 Port (flash storage only)
	1 × Mini-USB Type-B 2.0 Port (console port)
Connections	2 × DALI Ports (Channel A and Channel B)
Buttons	2 × push buttons (Button A and Button B)
LED Indicators	2 × Run (Power)/Error
	2 × Ethernet Link/Speed
	2 × Port A TX/RX
	2 × Port B TX/RX
	1 × Button A indicator
	1 × Button B indicator

Terminal Wiring (power supply and low-voltage)

1 core	$0.5mm^2$… $2.5mm^2$
2 cores	$0.5mm^2$… $1.5mm^2$
3 cores	not permitted

Per terminal: solid wires or stranded wires (twisted or with ferrule). If cables are more than 3.05 meters long, Class 2 cable is required.

Battery (SCY-2DALI)

Size	Coin 20mm x 3.2mm
Capacity	3V / 225mAh
Type	Manganese Dioxide Lithium

Mechanical

SCY-1DALI (H × W × D)	
Net Dimensions	90 × 105 × 58 mm
Recommended space for installation	130 × 115 × 100 mm
SCY-1DALI Shipping Weight	0.43 kg
SCY-2DALI (H × W × D)	
Net Dimensions	90 × 88 × 58 mm
Recommended space for installation	130 × 100 × 100 mm
SCY-2DALI Shipping Weight	0.28 kg
Enclosure Material[1]	Polycarbonate
Enclosure Rating	Plastic housing, UL94-V-0 flammability rating
Color	Light Grey. RAL 7035
Mounting	Din-rail or wall-mounting

1. All materials and manufacturing processes comply with the RoHS directive and are marked according to the Waste Electrical and Electronic Equipment (WEEE) directive

Environmental

SCY-1DALI Operating Temperature	+0°C to +70°C
SCY-2DALI Operating Temperature	+0°C to +60°C
Relative Humidity	5 to 95% non-condensing
Ingress Protection Rating	IP20

Standards and Regulations

DALI Port (SCY-1DALI)

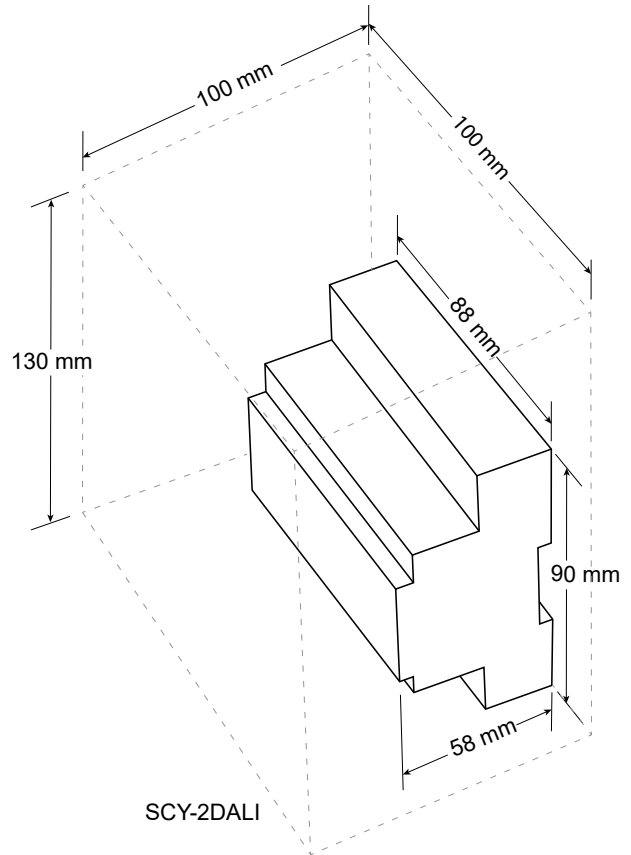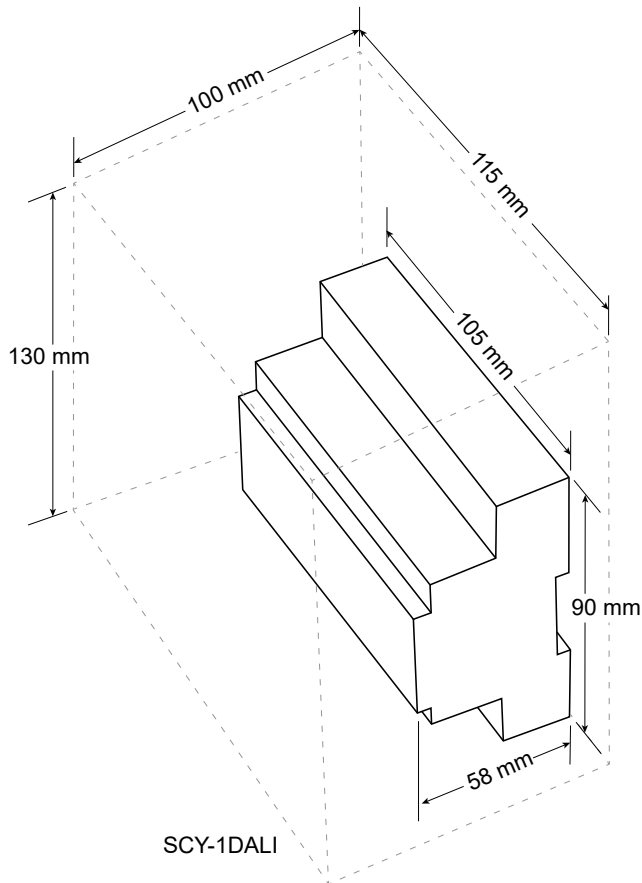|	
DALI Port (DA+ / DA-)	DALI port (Plug-in screw terminal block 2 poles)
DALI Port Voltage Rating (DA+ / DA-)	16VDC
DALI Power Consumption	220 mA
Voltage Isolation	1500VDC isolation from other ports

Channel A (SCY-2DALI)

DALI Channel A (A3 / A4)	DALI port (Plug-in screw terminal block 2 poles)
Channel A Voltage Rating (A3 / A4)	16VDC
DALI Power Consumption	240 mA
Voltage Isolation	1500VDC isolation from other ports
DIP Switch	NOT USED (switches must remain in the off position)

Channel B (SCY-2DALI)

DALI Channel B (1 / 2)	DALI port (Plug-in screw terminal block green 2 poles)
Channel B Voltage Rating (1 / 2)	16VDC
DALI Power Consumption	240 mA
Voltage Isolation	1500VDC isolation from other ports
DIP Switch	NOT USED (switches must remain in the off position)

Dimensions

SCY-1DALI

SCY-2DALI