

Sympholink Zigbee Surface Temperature Sensor



This ZigBee Surface Temperature Detector is a wireless environmental monitoring device that detects the temperature and humidity of the environment in real-time.



Attentions

- Zigbee 3.0 Compliant.
- Temperature and humidity detection.
- Low-battery alarm function.
- OTA (Over-the-Air) firmware upgrade.
- Low power consumption.
- Remote real-time monitoring.
- Surface mount installation by the screw or magnet.

Delivery Content

- Sympholink Zigbee Surface Temperature Sensor

Identcode

CL25100012955

Technical data

Dimensions (D X W X H)	87 X 33 X 18 mm
Weight	50 g
Power Supply Input	3V DC (2 X AAA Batteries)
Standby Power Consumption	10 μ A
Operating Temperature	-20°C – 75°C
Storage Temperature	-40°C – 85°C
Operating / Storage Humidity	0% to 100% RH (Non-Condensing)
Protection Class	IP20
Housing Material	Polycarbonate
Certifications	CE, FCC, RoHS
Electrical Safety	CE
Wireless Range	30m Line of Sight
Signal	Zigbee 3.0, 2.4 GHz
Alarm Sound	$\geq$ 80dB / 1m

Sensing

Temperature Range and Precision	-20°C – 75°C, $\pm$ 0.5°C
Humidity Range and Precision	0% to 100% RH (Non-Condensing), $\pm$ 3%

Default Setting

Temperature Detection Interval (In Sleep Mode)	30 seconds (Configurable)
Temperature Alarm High Limit	50°C (Configurable)
Temperature Alarm Low Limit	0°C (Configurable)
Buzzer and LED Alarm Duration	30 seconds

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Product Photo



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Operation

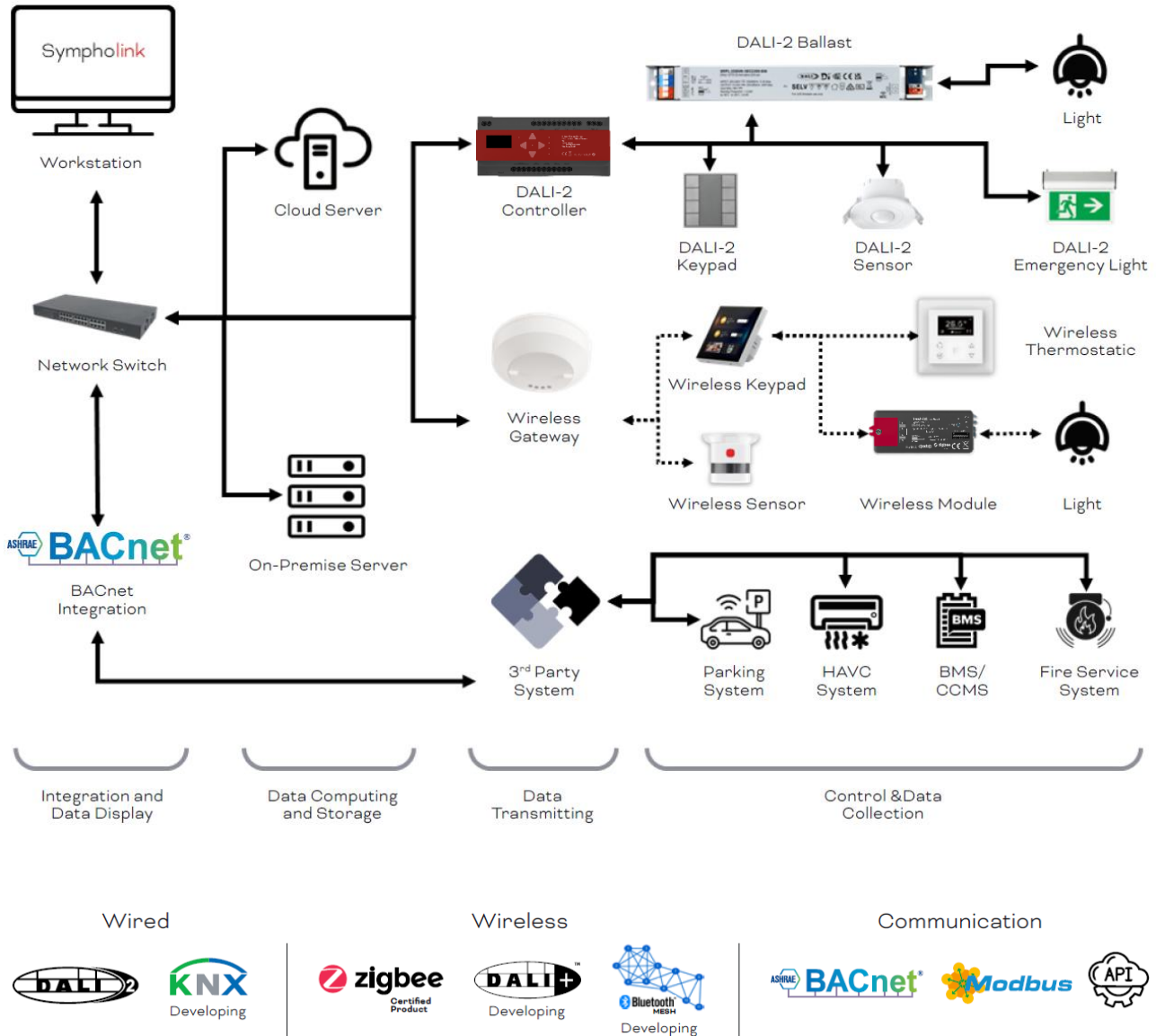
1. Joining a Network
 - a. Method 1: If the device is not connected to a Zigbee network, power it on and then device enters network search mode (10s timeout).
 - b. Method 2: Short press network button 3 times within 1.5s and then device enters network search mode (60s timeout).
2. Leaving the Network
 - a. Long press network button till green LED slowly flashes 4 times and then release button. Device leaves network and clears all bindings.
3. Factory Reset
 - a. Long press network button for over 10s and then device network, clears all bindings, and restores all parameters to default values

LED Status

Status	Red LED	Blue LED	Green LED
High Limit Temperature Alarm	Slow Flash	-	-
Low Limit Temperature Alarm	-	Slow Flash	-
Power On	-	-	On 1s
Power On (Already Joined Network)	-	-	On 3s
Power On (Not Joined Network)	-	-	Fast Flash
OTA (Over-the-Air) Firmware Upgrade	-	-	Fast Flash Twice Every 1s
Identify	-	-	Slow Flash
Network Joining Process	-	-	Fast Flash
Successfully Joined Network	-	-	On 3s
Network Exist and Reset Process	-	-	Slow Flash
Network Status Check – Joined (Short Press Button Once)	-	-	On 3s
Network Status Check – Not Joined (Short Press Button Once)	-	-	Slow Flash

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System Architecture Diagram



Remarks

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

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Featured Products

System Server, Software and License

Product Type	Traxon Part Number	Traxon Identcode	Product Description
System Server	Sympholink SSE MX	CL25100013455	Sympholink SSE (System Service Engines) MX are mini-servers developed for the control of medium scale projects. It can connect 32 PCS DALI-2 controllers or Zigbee gateways. It can be mounted on DIN rails with the optional DIN rail adapter brackets, on walls, and in 19 inch racks mounted on a rack drawer. e:cue's Sympholink Graphical User Interface (GUI) Software are preinstalled. As a central control unit, the versatile servers guarantee uninterrupted operation, since all lights and controllers are controlled within a project. e:cue servers are scalable to cover all project requirements.
System Server	Sympholink SSE FX-R	CL25100013555	Sympholink SSE (System Service Engines) FX-R are servers developed for the control of large scale and complex projects. It can connect 512 PCS DALI-2 controllers or Zigbee gateways. It can be mounted in server racks (3U). e:cue's Sympholink Graphical User Interface (GUI) Software are preinstalled. As a central control unit, the versatile servers guarantee uninterrupted operation, since all lights and controllers are controlled within a project. e:cue servers are scalable to cover all project requirements.
System Server	Sympholink SSE FX-T	CL25100013655	Sympholink SSE (System Service Engines) FX-T are servers developed for the control of large scale and complex projects. It can connect 512 PCS DALI-2 controllers or Zigbee gateways. It is tower type server placed on the desk. e:cue's Sympholink Graphical User Interface (GUI) Software are preinstalled. As a central control unit, the versatile servers guarantee uninterrupted operation, since all lights and controllers are controlled within a project. e:cue servers are scalable to cover all project requirements.
GUI Software License	Sympholink GUI	CS25100008555	Sympholink Graphical User Interface (GUI) Software. Designed to unify diverse lighting applications, Sympholink integrates multiple protocols, control layers, and third-party systems into a centralized platform. It enables seamless communication across digital and analogue interfaces, enhances fixture-level control, and supports intelligent functions such as sensor integration and automation triggers. (Windows 11 & 32Gb RAM)
BACnet License	Sympholink BACnet	CS25100008655	The BACnet Interface License enables the integration of the Sympholink Lighting Management System (LMS) with any BACnet compatible building automation system.
API License	Sympholink API	CS25100008755	The API Interface License enables the integration of the Sympholink Lighting Management System (LMS) with any API compatible building automation system.

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DALI-2 Controller

Product Type	Traxon Part Number	Traxon Identcode	Product Description
DALI-2 Controller	Sympholink DALI2 Controller 4CH	CL25100008855	Sympholink LMS DALI-2 Controller - It is control device that collects, processes, and distributes lighting control information to the inputs and outputs over the DALI network including 4 DALI Port (Total 256 DALI Address Provided) (DALI-2 Controller) (DALI-2 Certificate) (AC100-240V Power Input)

DALI-2 Convertor

Product Type	Traxon Part Number	Traxon Identcode	Product Description
DALI to 0-10V Convertor	Sympho DALI-2 to 0-10V Convertor - 1CH	CL25100013055	DALI to 0-10V Dimming Module with DIN Rail Mount Bracket (1 DALI address for 1 channel 0-10V output, 1 X 1.3A relay) (L46mm X W46mm X H21mm)
DALI to Phase Dim Convertor	Sympho DALI-2 to Phase Dim Convertor - 1CH	CL25100013155	DALI to Phase-cut Dimming DIN Rail Mount Module, 1 X 400W Channel, Trailing Edge Dimming Available
DALI to Phase Dim Convertor	Sympho DALI-2 to Phase Dim Convertor - 4CH	CL25100013255	DALI to Phase-cut Dimming DIN Rail Mount Module, 4 X 400W Channels, Trailing Edge Dimming Available (L146mm X H90mm X D67mm)

DALI-2 Sensor

Product Type	Traxon Part Number	Traxon Identcode	Product Description
DALI-2 Sensor	Sympho DALI2 Multi Sensor LS/MD	AM466320055	DALI PIR Multi-Sensor (Motion + Daylight); Powered by DALI Bus (6mA); 130 Deg. Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Recessed Mount) (D83mm X H21mm)
DALI-2 Sensor	Sympho DALI2 Multi Sensor HF	CL23100279855	DALI Microwave Multi-Sensor (Motion + Daylight); Powered by DALI Bus (10mA); 360 Deg. Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Recessed Mount) (D83mm X H21mm)
DALI-2 Sensor	Sympho DALI2 Multi Sensor HF DC	CL25100008955	DALI Microwave Multi-Sensor (Motion + Daylight); DC12V / 24V Power Input; 360 Deg. Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Recessed Mount) (D83mm X H21mm)
DALI-2 Sensor	Sympho DALI2 Wide-range Sensor LS/MD RE	CL25100009055	DALI PIR Wide Range Sensor (Motion + Daylight); Powered by DALI Bus (6mA); Including Different Lens for Different Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Recessed Mount) (D90mm X H53mm)
DALI-2 Sensor	Sympho DALI2 Wide-range Sensor LS/MD SF	CL25100009155	DALI PIR Wide Range Sensor (Motion + Daylight); Powered by DALI Bus (6mA); Including Different Lens for Different Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Surface Mount) (D60mm X H56mm)
DALI-2 Sensor	Sympho DALI2 High-bay Sensor LS/MD	CL25100009255	DALI PIR High Bay Sensor (Motion + Daylight); Powered by DALI Bus (6mA); Including Different Lens for Different Detection Angle; Daylight Sensor Detect Range 0-1000 Lux (DALI-2 Control Device) (Surface Mount) (D107mm X H40mm)
DALI-2 Sensor	Sympho DALI2 LS/MD Sensor Integr	CL25100009355	Fixture Integrated DALI-2 D4i PIR & Light Sensor; Powered by DALI Bus (6mA); (L60mm X W22mm X H15mm)
DALI-2 Sensor	Sympho DALI2 MW Sensor Integr	CL24100001255	Fixture Integrated DALI-2 D4i Microwave & Light Sensor; Powered by DC12V/24V; (L60mm X W22mm X H15mm)
DALI-2 Sensor	Sympho DALI2 PIR US Dual Sensor	CL25100009455	DALI-2 Dual-Tech PIR + Ultrasonic Occupancy Sensor; Powered by DC12-24V (DALI-2 Control Device) (Recessed Mount) (D107mm X H60mm)

DALI-2 Keypad & Coupler

Product Type	Traxon Part Number	Traxon Identcode	Product Description
DALI-2 Keypad	Sympho DALI2 PL Keypad 2-Key WH	CL25100009555	2-Key Push Button DALI-2 Wall Lighting Switch (White Colour) with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum))
DALI-2 Keypad	Sympho DALI2 PL Keypad 4-Key WH	CL25100009655	4-Key Push Button DALI-2 Wall Lighting Switch (White Colour) with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum))
DALI-2 Keypad	Sympho DALI2 PL Keypad 6-Key WH	CL25100009755	6-Key Push Button DALI-2 Wall Lighting Switch (White Colour) with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum))
DALI-2 Keypad	Sympho DALI2 PL Keypad 8-Key WH	CL25100009855	8-Key Push Button DALI-2 Wall Lighting Switch (White Colour) with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum))
DALI-2 Keypad	Sympho DALI2 Panel 2-Key (Metal)	CL25100009955	2-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Metal Colour)
DALI-2 Keypad	Sympho DALI2 Panel 2-Key (White)	CL25100010055	2-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (White Colour)
DALI-2 Keypad	Sympho DALI2 Panel 2-Key (Black)	CL25100010155	2-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Black Colour)
DALI-2 Keypad	Sympho DALI2 Panel 4-Key (Metal)	CL23100279055	4-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Metal Colour)
DALI-2 Keypad	Sympho DALI2 Panel 4-Key (White)	CL23100279255	4-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (White Colour)
DALI-2 Keypad	Sympho DALI2 Panel 4-Key (Black)	CL23100279455	4-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Black Colour)
DALI-2 Keypad	Sympho DALI2 Panel 8-Key (Metal)	CL23100279155	8-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Metal Colour)
DALI-2 Keypad	Sympho DALI2 Panel 8-Key (White)	CL23100279355	8-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (White Colour)
DALI-2 Keypad	Sympho DALI2 Panel 8-Key (Black)	CL23100279555	8-Key Push Button DALI-2 Wall Metallic Lighting Switch with LED Indication (W72mm X H72mm X D15mm) (Powered by DALI Bus; 2mA (Typical); 10mA (Maximum)) (Black Colour)
DALI Push Button Coupler	Sympho DALI2 Push Button Coupler	AM466330055	DALI Push Button Coupler - 4 Input Binary Channels for Free Contacts for Connecting Installation Switches or Push Buttons. (Powered by Connected DALI Wires) (DALI-2 Control Device)
DALI Relay	Sympho 4X12A DALI2 Relay	CL23100278855	4 X 12A Channels DIN Rail Mount DALI Relay Module; AC100-240V Power Input; 4 X 12A Resistive Load Relays (DALI-2 Control Device) (W53mm X H110mm X D65mm)
DALI Relay	Sympho 4X16A DALI2 Relay	CL23100278755	4 X 16A Channels DIN Rail Mount DALI Relay Module; AC100-240V Power Input; 4 X 16A Resistive Load Relays (DALI-2 Control Device) (L146mm X H90mm X D67mm)
DALI-2 Touch Panel	Sympho DALI2 4-in Touch Screen	CL25100010255	4-inch DALI-2 Touch Screen; AC100-240V Power Input
DALI-2 Touch Panel	Sympho DALI2 10-in Touch Screen	CL25100010355	10-inch DALI-2 Touch Screen; AC100-240V Power Input

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Zigbee Gateway

Product Type	Traxon Part Number	Traxon Identcode	Product Description
Zigbee Gateway	Sympholink Zigbee Gateway	CL25100010455	Zigbee Gateway in Sitting Desk installation control device that collects, processes and communicates lighting control and environmental sensor information to Sympholink control modules, keypads, sensors and other devices via a mesh network based on ZigBee® standards. Each Zigbee Gateway typically can control up to 120 Zigbee nodes. (Powered by AC100-240V)
Zigbee Gateway	Sympholink Zigbee Gateway PoE	CL25100010555	Zigbee Gateway in Ceiling or Surface Mount installation control device that collects, processes and communicates lighting control and environmental sensor information to Sympholink control modules, keypads, sensors and other devices via a mesh network based on ZigBee® standards. Each Zigbee Gateway typically can control up to 120 Zigbee nodes. (Powered by AC100-240V or Power over Ethernet (PoE))

Zigbee Converter

Product Type	Traxon Part Number	Traxon Identcode	Product Description
Zigbee to DALI Converter	Sympholink Zigbee to DALI Converter	CL25100010655	Zigbee to DALI Converter - Suitable for up to 16 PCS DALI-2 Ballasts Controlled in Broadcast Mode
Zigbee to DALI Converter	Sympholink Zigbee to DALI-2 Converter - D4i	CL25100010755	Zigbee to DALI Converter - Suitable for up to 8 PCS DALI-2 Ballasts (Support D4i Data Collection) & 1 PCS DALI-2 Sensor & 1 PCS DALI Emergency Battery Inverter (100mA DALI Current Provided)

Zigbee Sensor & Detector

Product Type	Traxon Part Number	Traxon Identcode	Product Description
Zigbee 4-in-1 Sensor	Sympholink Zigbee 4IN1 Sensor Battery	CL25100011055	Zigbee 4 in 1 (PIR Occupancy, Daylight, Temperature & Humidity) Surface Mount Sensor. (Powered by Battery (2 X AAA Battery - DC3V))
Zigbee 4-in-1 Sensor	Sympholink Zigbee 4IN1 Sensor RM	CL25100011155	Zigbee 4 in 1 (Microwave Occupancy, Daylight, Temperature & Humidity) Recessed Mount Sensor. (Powered by AC100-240V) (D83mm X H21mm)
Zigbee Detector	Sympholink Zigbee Water Leakage Detector G2	CL25100012455	Zigbee Water Leakage Detector (Powered by Battery)
Zigbee Detector	Sympholink Zigbee Industrial Water Leakage Detector	CL25100012555	Zigbee Industrial Water Leakage Detector (Powered by AC100-240V)
Zigbee Detector	Sympholink Zigbee Carbon Monoxide Detector	CL25100012655	Zigbee Carbon Monoxide Detector (Powered by Battery)
Zigbee Detector	Sympholink Zigbee Smoke Detector	CL25100012755	Zigbee Smoke Detector (Powered by Battery)
Zigbee Detector	Sympholink Zigbee Natural Gas Detector	CL25100012855	Zigbee Natural Gas Detector (Powered by AC100-240V)
Zigbee Detector	Sympholink Zigbee Surface Temperature Sensor	CL25100012955	Zigbee Industrial Surface Temperature Sensor (Powered by Battery)

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Zigbee Keypad

Product Type	Traxon Part Number	Traxon Identcode	Product Description
Zigbee Keypad	Sympholink Zigbee Green Power Keypad 4-Key WH	CL25100011255	Zigbee Green Power 4 Gang Keypad (White Colour) (W86mm X H86mm X D15mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 2-Key White	CL25100011355	Zigbee 2-Key Push Button Slim Frame Keypad; White Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 2-Key Black	CL25100011455	Zigbee 4-Key Push Button Slim Frame Keypad; Black Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 2-Key Metal	CL25100011555	Zigbee 2-Key Push Button Slim Frame Keypad; Metal Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 4-Key White	CL25100011655	Zigbee 2-Key Push Button Slim Frame Keypad; White Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 4-Key Black	CL25100011755	Zigbee 4-Key Push Button Slim Frame Keypad; Black Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 4-Key Metal	CL25100011855	Zigbee 4-Key Push Button Slim Frame Keypad; Metal Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 8-Key White	CL25100011955	Zigbee 8-Key Push Button Slim Frame Keypad; White Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 8-Key Black	CL25100012055	Zigbee 8-Key Push Button Slim Frame Keypad; Black Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Keypad	Sympholink Zigbee Slim Frame Keypad 8-Key Metal	CL25100012155	Zigbee 8-Key Push Button Slim Frame Keypad; Metal Colour; Powered by DC3V (CR2032 Battery) (W80mm X H80mm X D11mm)
Zigbee Push Button Coupler	Sympholink Zigbee Push Button Coupler	CL25100012255	Zigbee Push Button Coupler - 4 Input Binary Channels for Free Contacts for Connecting Installation Switches or Push Buttons. (Powered by AC100-240V)
Zigbee Desk Remote	Sympholink Zigbee Desk Remote	CL25100012355	Zigbee Sitting Desk Remote Control (Powered by Battery)