



The Schröder ITERRA BASICBOX is the connection hub for the system. All the the drivers' node bus cable connections and the mains power of the nodes themselves are gathered in this cabinet. The Schröder ITERRA BASICBOX is a safe electrical cabinet centralising the wired communication connections (DALI) on the pole. Its purpose is not to feed the drivers' mains input, which should already be done (through the driver boxes).

The Schröder ITERRA BASICBOX has been designed to be customisable. For projects where a similar cabinet already exists, it can be optional.

KEY ADVANTAGES

- > **One cabinet for up to 8 DALI drivers**
- > **Flexibility: the cabinet can be adapted to the number of available DALI lines by obturating the unused cable gland holes**
- > **A second DIN rail enables adding more optional safety devices such as SPD, fuses, relays, transformers, etc.**
- > **Easy and versatile mounting**

DIMENSIONS AND MOUNTING

Dimensions (mm inch)	281x322x112 11.1x12.7x4.4
Weight (kg lbs)	2.6 4.4
Mounting	On a pole, with 2 steel collars - width: ≤15.6mm/0.6" (not provided)

HOUSING AND FINISH

Housing	Polycarbonate, glass-fibre reinforced, halogen-free
Standard colour	RAL 7035 light grey
Tightness level	IP 66 (with hydrophonic vent)
Impact resistance	IK 09
Flammability rating	V2
Glow-wire flammability	750°C 1382°F According to EN 60695-2-11

ELECTRICAL INFORMATION

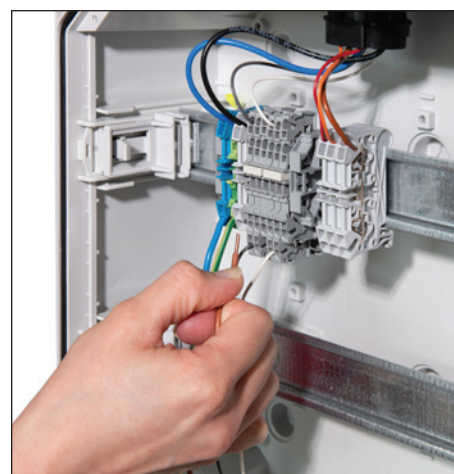
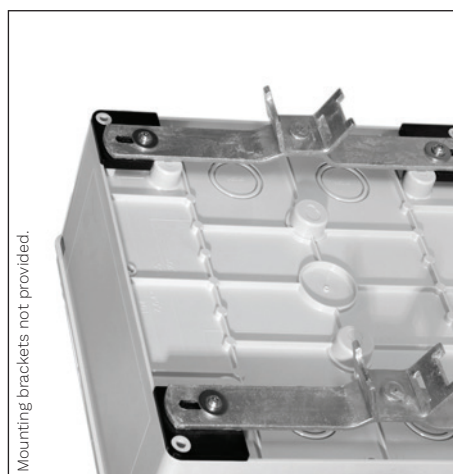
Electrical class	Class II EU
Rated insulation	1000VAC 1500VDC
UL type protection	4X, 12/12K
Control socket	NEMA 7-pin

OPERATING CONDITIONS

Operating ambient temperature range	-35°C to +80°C -31°F to +176°F
Max. ambient temperature 24h	+60°C +140°F
Relative humidity @25°C +77°F	0-95%
Relative humidity @40°C +104°F	50%

SAFETY

DLG	Confirmed ammonia resistance following DLG test directive
EU	EN 62208; EN 61439-1/-2 ; EN 61439-1/-3 ; EN 61439-1; IEC 61439-7)
US/CAN	CSA 22.2 No. 94.1-15, UL 50E & CSA C22.2 No. 94.2-15
DNVGL	DNVGL certified – Class: Shipping & offshore systems





The Schröder ITERRA NEMA NODE is the base communication module of the ITERRA control system that converts a wired DALI signal into BLE wireless communication in a mesh network.

The node offers a solution to seamless control for sports lighting through a mesh Bluetooth™ 4.0 network. Each control node stores information about its configuration and the configuration of the rest of the network. The mesh network provides a high level of robustness and simplifies the replacement of control nodes as programming them is not required. Electrical connection and mechanical mounting are achieved by tool-free twist and lock on a standard NEMA 7-pin socket (ANSI 136.41).

Configuration and control can be managed from a mobile phone or tablet using the free Schröder ITERRA mobile App, available for iOS and Android devices. Adding a node to the network is done individually using the mobile App within a range of one unit (up to 100m) from the mesh network. To control the nodes, it is only necessary to be within the scope of one of them and use the Schröder ITERRA mobile App or a Schröder ITERRA PRESS remote control. When a node receives a firmware update, it is automatically retransmitted to the other ones (up to 250 nodes per network). Communication security is provided by encrypted messages. Various communication profiles can be configured to match the luminaire requirements.

The primary use is to control outdoor lighting applications (IP 66 UV-resistant enclosure), although indoor applications are also possible.

KEY ADVANTAGES

- > **Cost-effective: one node can control up to 8 DALI drivers**
- > **Scalable: a Schröder ITERRA network can manage up to 250 nodes**
- > **Wireless mesh: network coverage of up to 100m between nodes. The nearest node acts as a communication gateway with the other ones.**
- > **Operating DALI data available for each node**
- > **Controlled by the Schröder ITERRA App and PRESS remote control**

DIMENSIONS AND MOUNTING

Dimensions Øxh (mm inch)	81.2x75.4 3.2x3
Weight (gr oz)	150 5.3
Mounting	Twist and lock on a NEMA 7-pin socket (ANSI C136.41)

GENERAL INFORMATION

Recommended installation height (m ft)	5 16.4
CE mark	Yes
LvD	Yes
Reach	Yes
ReD	Yes
RoHS	Yes
UL	Pending

HOUSING AND FINISH

Housing	Polycarbonate (anti-UV treatment)
Standard colour	Semi-transparent black
Tightness level	IP 66 (with hydrophonic vent)
Impact resistance	IK 09
Working temperature	-40°C to +80°C -40°F to +176°F

ELECTRICAL INFORMATION

Electrical class	Class II EU
Nominal voltage	110-240V AC - 47-60Hz
Power consumption	Idle mode: <0.8W@230VAC With 1 DALI device: <1W@230VAC
Output control interface	DALI/DALI-2 according to IEC 62386-101, -102, -201, -203, -207, -250, -251, -252, -253 (pending)
Bus voltage	16V DC
Bus current	100mA max.

EMC AND IMMUNITY

Electromagnetic compatibility (EMC)	EN 55015:2013, EN 61547:2011, EN 61000-3-2, 3-3, EN 301489-1, -17
Surge protection	L-N: 0.5kV N-PE: 2kV L-PE: 2kV

RADIOFREQUENCY SPECIFICATIONS

Communication interface	Bluetooth 4.0 Low Energy (BLE)
Frequency range	2402-2483 MHz
Network type	Self-healing, frequency-hopping, spread-spectrum mesh technology
Max. transmission power	+4dBm
Wireless class	Class 2

COMMUNICATION FEATURES

Data security	AES128 bit encryption + elliptical cryptography
Firmware update	OTA (over the air)
Real-time counter	Update with the Schröder ITERRA mobile application
DALI information	Real-time updating of the following DALI info through the App: device type, total energy, resettable energy counter, active power, system on time, luminaire on time, mains voltage, mains current.
Network coverage	< 100m between two nodes, depending on installation height and presence of obstacles

SAFETY

Luminaires	EN 61347-1:2016 & EN 61347-2-11:2003
Protection	Line overvoltages, surge, temperature



The Schröder ITERRA PRESS is an optional physical input interface associated with the Schröder ITERRA control system.

This multifunctional wireless switch works as an all-in-one remote control that gives access to the essential Schröder ITERRA mobile App control features. The interface includes eight commands (2 multi-purpose commands for tunable white, 4 preset scenarios, dimming up and dimming down). All of them can be configured wirelessly with the Schröder ITERRA mobile App.

As the Schröder ITERRA PRESS can control nodes at a distance of up to 50 metres, it provides huge flexibility for installation with easy location change at any time. A mounting plate fixed with two screws on any hard surface offers support for the magnetic back of the Schröder ITERRA PRESS.

Working as a Bluetooth™ remote control augmented with additional functionality for smart lighting, it can be moved, stored overnight or relocated at any time. The internal battery provides long-term power for the remote control (up to 5 years).

DIMENSIONS AND MOUNTING

Dimensions (mm inch)	90x90x12 3.5x3.5x0.5
Weight (gr oz)	90 3.2
Mounting	Metallic mounting plate fixed by 2 screws + magnetic backside

GENERAL INFORMATION

Use case	Designed for indoor use only, in a dry environment
Communication	Bluetooth 4.0 Low Energy (BLE)
Communication reach	< 50m, depending on presence of physical obstacles
Battery type	CR2430 Lithium coin cell
Battery lifetime expectancy	2-5 years, depending on usage

BUTTONS

-/+	Dim down/Dim up
λ/ν	Multipurpose buttons for tunable white
1	• Individual connected luminaire control
2	• Group control
3	• Control of all connected luminaires
4	• Recall scenarios • Recall animations

STANDARDS

CE mark	Yes
LvD	N/A
Reach	Yes
ReD	Yes
RoHS	Yes

KEY ADVANTAGES

- > **Plug-and-play: Bluetooth™ low-energy pairing for fast configuration with the Schröder ITERRA mobile App**
- > **8 integrated commands to trigger various lighting scenarios**
- > **Versatile mounting while remaining 100% mobile**
- > **Low power consumption: long-life internal battery**

