

Axess-PL Node

Communication node for electronic ballasts



MAIN FEATURES

- Individual management of lighting points within a network of public lighting (Motorways, roads, streets, residential zones, etc).
- The node enables the realisation of energy savings through lamp control via dimmable electronic ballasts.
- Two way communication with the electronic ballast via the DALI™ protocol.
- Exchange of information with a data concentrator (Ilon Smart Server™) via PLC (Power Line Communication). The exchange of information is in conformity with the LonWorks™ communication protocol.
- Class I energy meter built-in for the measurement of the power consumed by the node and the ballast. Measurement of other parameters such as: input RMS Current, Input Voltage, input Power and Power Factor, etc.
- Access in real-time to all the operational parameters of the Ballast, such as Lamp Current, Lamp Voltage, Lamp Status, Ballast Temperature and Ballast Status such as Unable to start the lamp.
- Send an alarm message if any of the preset safety thresholds is exceeded.
- Management and sending in real-time of alarms and fault conditions of the ballast and the lamp.
- Can be installed in the luminaire or in the base of the pole.
- Can drive two ballasts (Optional).

PERFORMANCE

- The node generates an alarm in the event of abnormal power consumption.
- Alarms in the event of excessive values for the lamp voltage, current or power.
- Alarm in the event of excessive values of ballast temperature.
- Detection of out of service lamp, if open circuit or short circuit.
- Alarm when lamp is approaching end of life, before the lamp actually fails.
- Alarm in the event of communication failure between node and ballast
- Compatible with all electronic ballasts that use the DALI™ protocol.

OPTIONS :

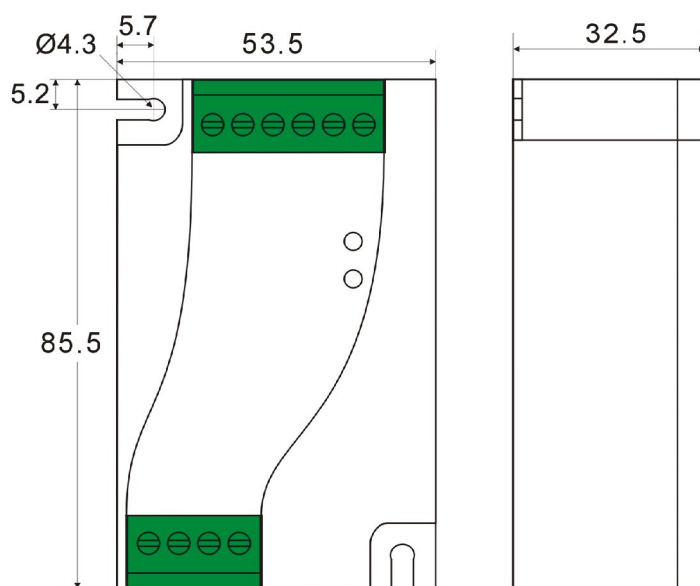
- Control of two ballasts.
- Able to control other equipment (such as festive lighting) via the optional relay.
- Support for dry contact input sensor. The status can be read by the data concentrator (Ilon Smart Server™).

OTHERS

- Protection against over voltage: up to 12 kV.
- Enclosure protection: IP54.
- Life Span higher than 10 years.

APPLICATIONS

- City and road lighting.
- Parking or shopping centres, malls.
- Airport or railway lighting.
- Floodlighting of monuments or buildings.
- Ideal for tunnel lighting (HID).
- Industrial interior lighting.



TECHNICAL CHARACTERISTICS

Input Voltage	90 - 265 V
Frequency	50 - 60 Hz
Types of ballast	Electronic
Communication with ballast	Bidirectional DALI™
Communication with the data concentrator	Bidirectional PLC, LonWorks™
Operating Temperature	- 20°C to + 55°C
Storage temperature range	- 30°C to + 80°C
Humidity	0 % to 98 %
Weight	0.3 Kg

Note : not suitable for ferromagnetic ballast.

STANDARDS

- **Communication DALI™**
 - IEC 62386 - 101
 - IEC 62386 - 102
 - IEC 62386 - 203
- **Communication PLC**
 - Compatible EN50065
 - Band-C : 125-140 Hz
- **Protocol LonWorks™**
 - ISO/IEC 14908 - 1-2
- **EMC Immunity**
 - EN 61547
- **Environmental**
 - RoHS
 - WEEE
- **EMC / EMI**
 - RFI : EN 55022A
 - Limits for harmonic current emissions EN (IEC) 61000 - 3 - 2
- **Safety (CE, UL, cUL and GS)**
 - CEI 60950 – 1 2nd edition

WIRING DIAGRAM

