

B NLC D4I LS P Z**Light sensor outdoor for HubSense®**

Bluetooth NLC device

For light harvesting in outdoor
D4I standard**Product family benefits**

DiiA D4I certified incl. parts -351
 Design freedom due to compact size
 Easy to integrate in luminaire

Areas of application

Parking area
 Urban squares

Benefits

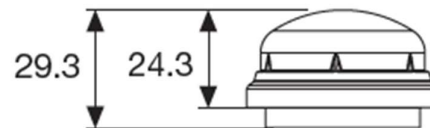
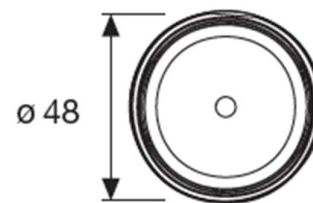
Light control of outdoor application
 Installable on Zhaga Book 18 socket
 Control of D4I drivers or DALI drivers
 Works with HubSense
 Works with OSRAM DEXAL

Approval marks

CE, (SRRRC), Bluetooth mesh, D4I, (UL in prep.)
 Housing material: plastic material, white



LS

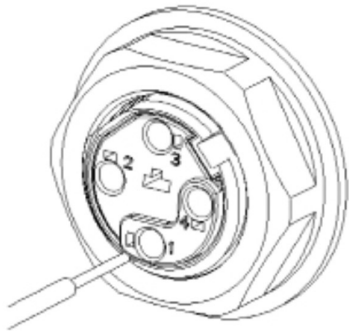
**Product Features**

- Light sensor for luminaire integration based on Bluetooth NLC
- D4I controlled (energy reporting, diagnostic and maintenance)
- Stand by power consumption <150mW
- 50000 h lifetime at tc max = 65°C
- Installation height for head poles up to 15m
- IP grade IP66
- light detection 1 – 5000 lux
- Socket compliant to Zhaga Book 18
- 5 years guarantee

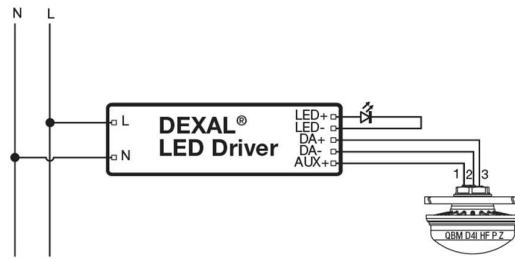
Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Rated voltage	12 – 22.5	Vdc	PIN 2 (DA-) PIN 3 (DA+)
	Average input current	10	mA	
	Peak input current	30	mA	
	Standby power	<150	mW	Stand by power
	Radio frequency	2.4 – 2.483	GHz	
	Max Tx Power	+8	dBm	4.484 mW
	Wireless protocol			Bluetooth NLC provided by SILVAIR
	Range	40	m	Line of sight (optimal weather conditions)
CAPABILITIES	Control	D4I		DALI parts: 101, 103, 351
	Number of connected drivers	4		D4I LED drivers
	Type of sensor			Ambient light sensor
	Mounting heights	<15	m	
	Installations			In Luminaire
	Light measurement			1 – 5000 lux
	Reset			Magnet – see instruction manual
	LEDs indicator			Blue x 1, Red x 1 (pairing, connected & etc. indications)
ENVIRONMENT	Ambient temperature range t_a	-20 ... +60	°C	
	Maximum case temperature t_c	65	°C	(50,000 hrs lifetime at max. $T_a = 50^\circ\text{C} / T_c = 60^\circ\text{C}$)
	Storage temperature range	-20 ... +70	°C	
	Operating humidity	0 ... 95	%	(Tbc)
	Storage humidity	0 ... 95	%	Not condensing
	Environmental rating	outdoor		
	IP rating	IP 66		When assembled to socket
	Expected lifetime	50'000 100'000	h h	$T_c=65^\circ\text{C}$ $T_c=55^\circ\text{C}$
	Diameter external	40	mm	
	Height	25	mm	
	Product weight	40	g	
	Wire preparation length, input side	7 – 9	mm	Poke in connectors
	Maximum allowed cable length	10	m	
	STANDARDS	CE LVD: EN61347-1 EN61347-2-11 EMC: EN 301 489-1 EN 301 489-17 EN51547 EN 55015 EN 50663 EN 300 328 DALI 2: EN IEC 62386-101, EN IEC 62386-103 and D4i Part 351 RoHS & REACH compliance		
SRRC				

Connection



Zhaga Book 18 – socket



Pin 1	+24 V
Pin 2	24V gnd / DA (-)
Pin 3	DA (+)

Additional product information

- By integrating the device into a casing, the wireless range could be affected by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- The device could be reset to factory default by magnet (cfr User Instruction)
- The status LED of the device indicates following Network status
- Blue LED Indicator:
 - Success connection: LED indicator flashes 2s at once
 - No connections: LED indicator flashes 0.3s at once
- Reset to factory settings:
 - LED indicator flashes 1s at once, then quickly flashes and disappears
- Red LED Indicator:
 - Warm up: LED indicator disappears after 60s
- The device has passed successfully the SILVAIR Testing process.
- The device can be put into operation using the HubSense Commissioning Tool (<https://platform.hubsense.eu>), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- Inventronics may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact Inventronics (support@inventronicsglobal.eu) to receive the actual list of supported models for this device.
- Inventronics shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Inventronics qualified Bluetooth mesh products with any other products, that have passed the SILVAIR Testing process

ordering information

Product name	EAN10
B NLC D4I LS P Z	6977078999519

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