Tools Required:

Overview:

Controllability:	Zhaga-D4i
Weight:	0.18 lbs.
Protection Class:	IP66
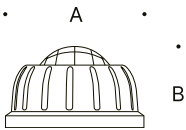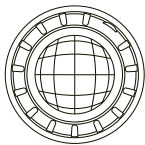
Dimensions
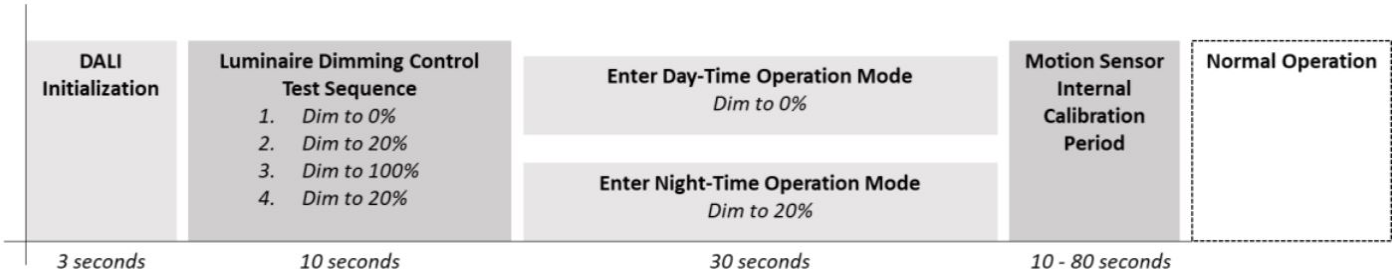
A: 3-1/8"

B: 1-5/8"

A

B

Notice to Installer:
1. See page 2 for specific product safety warnings and an example wiring diagram.
2. Wet location listing does not imply suitability for exposure to standing water for long periods of time.
3. The Zhaga light and motion sensor lens is designed to be installed on a downward facing Zhaga Book 18 Ed. 3.0 (Z-LEX-R), has a round detection area and ideal mounting height of 16' to 40' above finished grade. The effective motion detection range is approximately:
    - 100ft x 80ft when mounted at 16' height above the ground
    - 105ft x 110ft when mounted at 26' height above the ground
    - 90ft x 90ft when mounted at 40' above the ground
4. Intended for use in combination with BEGA Zhaga Air Connector part 71210. See website for compatible products.
5. The Zhaga light and motion sensor is powered via the DALI-2 bus power supply. For proper installation, the luminaire must be permanently connected to main electrical power.
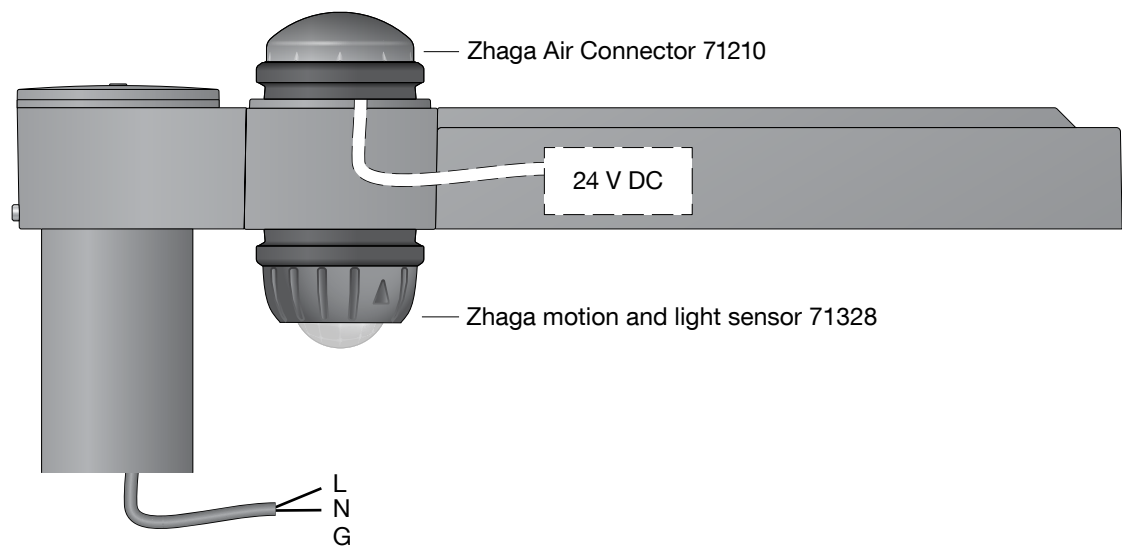
Installation:
1. Install luminaire with Zhaga Book 18 Ed. 3 interface per installation instructions.
2. For installation of the Zhaga light and motion sensor, remove the factory-installed shorting cap at the top of the luminaire housing by rotating counter-clockwise.
3. Insert the Zhaga light and motion sensor into the socket, press and turn clockwise as far as it will go.
4. Take special care to ensure the gasket is flush against the luminaire housing, with no folds or foriegn objects around the seal.
5. Note the arrow on the luminaire housing indicates the direction of the road (Zhaga y axis) when the sensor is engaged.

Initial Set Up:
1. Once the Zhaga light and motion sensor is installed and receiving power, the Zhaga light and motion sensor will execute a standard power-on routine. The luminaire will turn on and off, as well as adjust the dimming percentage, as part of a normal light sensor calibration routine. The device then enters a motion sensor calibration mode, which may take up to 120 seconds depending on the conditions. After start up and calibration is complete, the device will enter normal operational mode. To restart the calibration, the luminaire must be power-cycled.
2. See page 2 for factory default settings and specific programmable options.

DALI Initialization	Luminaire Dimming Control Test Sequence	Enter Day-Time Operation Mode / Enter Night-Time Operation Mode	Motion Sensor Internal Calibration Period	Normal Operation
	1. Dim to 0% 2. Dim to 20% 3. Dim to 100% 4. Dim to 20%	**Enter Day-Time Operation Mode** *Dim to 0%* **Enter Night-Time Operation Mode** *Dim to 20%*		
3 seconds	10 seconds	30 seconds	10 - 80 seconds	

Zhaga light and motion sensor: Wiring

Zhaga Air Connector 71210

24 V DC

Zhaga motion and light sensor 71328

L
N
G

Content	Default (decimal, hex)
Light Output % - Low Level *Nighttime light output without motion. 0x64 = 100% (>0x64 is set to 100%. The low level should be lower or equal to this value)*	20% (20dec, 0x14)
Light Output % - High Level *Nighttime light output during motion event. 0x64 = 100% (>0x64 is set to 100%. The high level should be higher or equal to the user defined Low Level)*	100% (100dec, 0x64)
Light Output % - High Temperature Mode *Nighttime light output in High Temperature Mode. 0x64 = 100% (>0x64 is set to 100%. The High Temperature Mode is set at a minimum of 40%)*	50% (50dec, 0x32)
Lamp On Time *Lamp on-time used from 0x0C to 0xFF. (0x01 = 5 seconds increment, each increment equals a 5 seconds increase of the Lamp On Time). The Lamp On Time has a minimum setting of 60s.*	120s (24dec, 0x18)
Turn On Level *Light level in lux from 0x0A to 0xF5. The minimum Turn On Level is set at 10 Lux and the maximum is set at 245 Lux. Below or above the minimum/maximum levels, the value will be set at the respective minimum/maximum value.*	35 lux (35dec, 0x23)
Turn Off Level *Light level in lux from 0x0A to 0xF5*	18 lux (18dec, 0x12)

Table 1 - Memory Bank 2 contents

Product Safety Warnings:
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED. SUITABLE FOR WET LOCATIONS. SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 70°C

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS. CONVIENT AUX EMPLACEMENTS MOUILLÉS. PEUT ÊTRE UTILISÉ À UNE TEMPÉRATURE AMBIANTE N'EXCÉDANT PAS 70°C

INPUT RATINGS: 24VDC, 2W CV Class 2
OUTPUT RATINGS: 16VDC Class 2 (DALI Signal)