

DATASHEET



DESCRIPTION

Actis Force Nema7 Edition is a smart and autonomous device for the remote control of LED light points equipped with DALI protocol drivers. Specially designed for every type of street light, including applications such as residential, urban and road. It is enabled with LoRaWAN communications and it is compatible with Zhaga standard socket luminaires.





KEY FEATURES

• Relay output and Real time clock for controlling luminaire's ON/OFF and activating the preset regulation profiles.

- ON/OFF control: remote, astronomical clock or photocell.
- Equipped with dimming control: DALI-2.
- Built-in temperature sensor.

• Integrated accelerometer for the detection of hits and faulty installations.

• Plug-and play installation for luminaires compatible with Zhaga standard socket.

• Energy meter included to measure main electrical parameters (according to data provided by LED driver): voltage, current, energy, power factor, active and reactive power.

• Configurable general purpose input / output for external signalling.

• Autonomously performs actions based on external events.

• Lamp accurate location through board integrated GPS (optional).

• Wireless communication via LoRa according to standard LoRaWAN for several frequency bands: EU868, US915, AU915, AS923, IN865. Multicast support.

• Remote updating.

TECHNICAL FEATURES

Communications

Version	LoRa EU	LoRa US	LoRa AUS/ ASIA	LoRa India
Frequency band	868 MHz	915 MHz	923 MHz	865 MHz
Power (Tx)	+14 dBm	+19 dBm	+19 dBm	+14 dBm
Receiver sesitivity (Rx)	-137 dBm	-130d Bm	-130 dBm	-137 dBm
Compliance	LoRaWAN 1.0.2			
Antenna	Internal			

Dimming interfaces

DALI-2	according to IEC 62386 part 101,102,103,104,201,207,216,217,218,219,220,221 ,222,223,224,301,302,303,304,305

Electrical connection and Power supply

Voltage range	22 - 26VDC
Power consumption	< 0.5W



ORDERING CODES

AZ-SI-LW-EU Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, GPS, ACC, MEMORY, LoRaWAN EU868

AZ-SI-LW-US Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, GPS, ACC, MEMORY, LoRaWAN US915

AZ-SI-LW-AU Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, GPS, ACC, MEMORY, LoRaWAN AU915

AZ-SI-LW-AS Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, GPS, ACC, MEMORY, LoRaWAN AS923

AZ-SI-LW-IN Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, GPS, ACC, MEMORY. LoRaWAN IN865

AZ-0I-LW-EU Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, LoRaWAN EU868 AZ-0I-LW-US Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, LoRaWAN US915 AZ-0I-LW-AU Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, LoRaWAN AU915 AZ-0I-LW-AS Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, LoRaWAN AS923 AZ-0I-LW-IN Actis Plus Zhaga device, ZHAGA socket, configurable digital input/output, Interface DALI-2, LoRaWAN IN865 AZ-00-LW-EU Actis Plus Zhaga device, ZHAGA socket, Interface DALI-2, LoRaWAN EU868 AZ-00-LW-US Actis Plus Zhaga device, ZHAGA socket, Interface DALI-2, LoRaWAN US915 AZ-00-LW-AU Actis Plus Zhaga device, ZHAGA socket, Interface DALI-2, LoRaWAN AU915 AZ-00-LW-AS Actis Plus Zhaga device, ZHAGA socket, Interface DALI-2, LoRaWAN AS923

AZ-00-LW-IN Actis Plus Zhaga device, ZHAGA socket, Interface DALI-2, LoRaWAN IN865





TECHNICAL FEATURES

Functional features

Switching function	Astronomic clock, Always ON (Luminaire is ON WHEN power supply is ON), Photocell
Dimming regulation	Remote or Preset (16 available profiles:7 different profiles reserved for each weekday and 9 profiles for 9 specific days)
Alarms	Temperature, and voltage, current, power and power factor deviations (according to driver support)
Accelerometer	Integrated
GPS	Compatible with GPS, GLONASS, BeiDou/Compass (depending on the version)
Storage	> 7 days (depending on the version)
Input & output	Configurable by extra terminal of Zhaga connector external power supply range

Environmental and Operating conditions

Operating temperature range	-20° a 65°C
Protection class	IP66, IK09
Lifetime	MTBF>150.000h según Telcordia SR-332

Mechanical features

Socket	ZHAGA 108-32125 ANSI C136.41-2013
Dimensions	41mm high x 80mm diameter
Weight	100gr
Material	Base (94 V0)- cover (Polycarbonate)



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