



DATASHEET

Actis Force

DESCRIPTION

Actis Force Nema7 Edition is a smart and autonomous device for the remote control of high-power LED luminaires, equipped with 1-10V or DALI protocol drivers. Specially designed for every type of street light, including applications such as residential, urban and road. It is enabled with LTE communications and compatible with NEMA 7 standard socket luminaires.



KEY FEATURES

- Relay output and Real time clock for controlling luminaire's ON/OFF and activating the preset regulation profiles.
- Several ON/OFF control: remote, astronomical clock or photocell.
- Equipped with two dimming control: DALI protocol and 1-10V signals.
- PCB-mounted temperature sensor.
- Plug-and play installation for luminaires compatible with NEMA 7 standard socket.
- Energy meter included to measure main electrical parameters: voltage, current, energy, power factor, active and reactive power.
- Configurable deviation alarms based on reference measurement thresholds.
- Lamp accurate location through board integrated GPS.
- Wireless communication via RF NB-1/Cat-M/GPRS/EDGE.

TECHNICAL FEATURES

Communications

Version	LTE NB-1/cat-M/EGPRS
Frequency band	B1/B2/B3/B4/B5/B8/B12/ B13/B18/B19/B20/B26/B28 GSM850/EGSM900/DCS1800/PCS1900
Power (Tx)	+23 dBm
Receiver sensitivity (Rx)	-113 dBm
Antenna	Internal

Dimming interfaces

DALI-2	12-20.5 VDC, 16 mA max; according to IEC 62386 part 101, 102, 104, 201, 203, 207.
1-10V	1-10 VDC, 16 mA max; according to IEC 60929 annex E

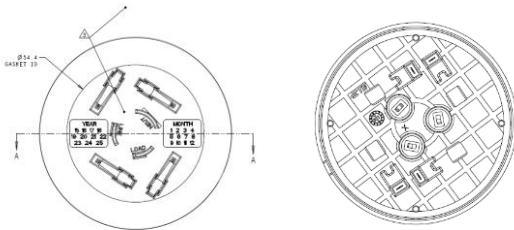
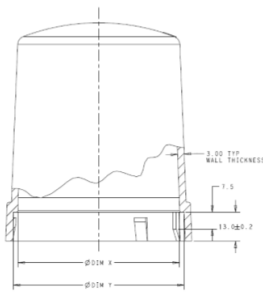
Electrical connection and Power supply

Voltage range	90 – 480VAC 50/60Hz
Voltage max	525VAC
Lamp load	16A
Power consumption	< 1.5W



ORDERING CODES

AF-SI-LT-WW Actis Force Nema 7 device, Nema7 socket, relay output, analog & digital input, network analyzer, Interface 1-10V & DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LTE NB1/cat M/GPRS/EDGE



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	Voltage, current, power and power factor deviations
Accelerometer	Integrated
GPS	Compatible with GPS, GLONASS, BeiDou/Compass
Storage	More than 1k memory records in case of communications failure

Network analyzer features

Measurements	Voltage, current, energy, power factor, active and reactive power
Accuracy	<0.2%

Environmental and Operating conditions

Operating temperature range	-20° to 60°C
Protection class	IP-66, IK09
Lifetime	MTBF > 150.000h according to Telcordia SR-332

Mechanical features

Socket	NEMA 7- 108-32125 ANSI C136.41-2013
Dimensions	100mm height x 82mm diameter
Weight	200gr
Material	Base (94 V0) - cover (Polycarbonate)