# Headlamp Swiveling Actuator

# EGC Lin 2.2



## Characteristics:

#### Main function:

The EGC "Sirius" actuator allows the rotation of a headlamp light unit in order to optimize the light distribution in the curves according to a signal coming from the steering wheel.

It has an integrated electronic driving unit communicating with the headlamp through Lin bus protocol. Its motor is a 2 phase bipolar stepper.

It has an integrated position sensor and a triple play compensation system.





## Performance:

#### Performance (typical, other requirements can be passed)

Voltage range (V)

Speed range (°/s)

Nominal torque (Ncm)

Minimal torque (Ncm)

Maximal torque (Ncm)

Angle range (°) Resolution (°/HS)

Temperature range (°c)

Duty cycle (%)

Protection

Angular play (°)

Weight (g)

10 to 16 14 to 25

>50 at 13V / 23°C / 729Hs/s

>35 at 10V / -40°C / 729Hs/s

<70 at 16V / 23°C / 729Hs/s

+/-20 0.0354

-40 / +105

40

**IP40** 

<0.65 under 8Ncm

100

### Electrical connexion and control

Motor type

Communication

Driver

Connexion

Solder

Reference run

EMC

2 phase bipolar stepper motor Single Wire Lin bus (Lin 2.2)

Onsemi NCV70628

JST XA7 pins (3 not used)

Leadfree

Managed by internal sensor. No referencing on mechanical stop

Specific test plan per OEM specification

### Design feature(see drawing for details)

Fixation on headlamp

Installation position

Location

Dimensions (mm)

Option

By screws: 5 locations possible, minimum 3 including 2 central.

Reversible

Internal to headlamp below optical unit

78x89x29 (see drawing)

Direct driving (no Lin bus)

