



## BRIEF INFORMATION

### Smart Universal Rotary Actuator (Smart URA)

- Actuator controls the position of its output gear wheel in accordance with the target position
- Precise position control with Hella CIPOS® technology
- Electrical rotation (right / left) with high torque
- Flexible operating angle range with up to eight complete revolutions
- "True Power On" function for angular ranges < 180°
- Integrated electronics monitor actuator function
- Error feedback and error memory
- Self-blocking gearbox

## PRODUCT FEATURES

The Smart Universal Rotary Actuator (Smart URA) from HELLA permits a broad range of applications even under harsh environmental conditions. In the agricultural segment, the Smart URA is used, for example, during seed metering / singling. During this process the CIPOS® technology and also high torque enable precise and reliable position control. A flexible operating angle range and the "True Power" function up to an angle of 180° make for a particularly precise application.

# SMART UNIVERSAL ROTARY ACTUATOR (SMART URA)

**Application:**

The Smart URA can be used in a broad range of applications involving harsh environmental conditions. High torque and CIPOS technology enable precise and reliable position control.

**Examples include:**

- Seed metering/singling
- Delivery air/exhaust air flaps
- Choke of the radiator grille
- Valve control in the cooling circuit

**Function:**

The Smart URA monitors the position of the output gear wheel and the integrated electronics continually calculate the position using an ASIC. The actuator offers the "True Power On" function for angles under 180°; i.e. it enables immediate commissioning without calibration. In operation, the actuator carries out controlled movement to the programmable "soft stops".

The self-locking transmission minimises current consumption (< 25 mA), which is required to maintain a defined position.

TECHNICAL DATA*	
Rated voltage	13.5 V
Operating voltage	9 V – 16 V
Operating temperature	-40°C to +85°C
Rated torque (13.5 V; RT)	60 Ncm
Max. torque (13.5 V; RT)	< 300 Ncm
Operating angle range	> 360° (< 180° true power on)
Protection class	IP 6K9K IP 6K7 (depending on category of mating connector)
Service life	Typically 250,000 cycles (1 cycle = 90° angle open – closed – open)
Control system	LIN 2.0 & PWM

## RANGE OVERVIEW

Function	Voltage	Torque	Manual adjustment	Protection class	Part number
Power locking/unlocking & closing, power rotational movement to right and left, with position feedback via CIPOS technology	12 V	< 300 Ncm	No	IP 6K9K or IP 6K7* (* depending on connector classification)	6NW 011 303-701

\* The technical data shown here represents the entire actuator group. It varies depending on the product or variant. Additional information is available online at [www.hella.com/soe-electronics](http://www.hella.com/soe-electronics) and in the electronics brochure.

Application example:  
Using the Smart URA for seed metering / singling

