

# E-SHIFT 2LV3



## XAP IS THE WORLD LEADER IN ELECTROMAGNETIC ACTUATORS FOR SEQUENTIAL GEARBOXES.

The E-Shift2-LV is an electric push/pull actuator developed specifically for the requirements of modern motorsport to command a sequential gearbox.

The E-Shift2-LV is a mono block assembly. The installation is very simple and once installed calls for very little service, unlike pneumatic and hydraulic systems where the installation requires many components and regular service.

XAP's electromagnetic actuators are reliable, consistent and do not need much maintenance.

**POWERFUL AND RELIABLE ELECTROMAGNETIC GEARBOX ACTUATORS.**

**MOVING MAGNETS TECHNOLOGY**

**MAGNETIC SPRING INSIDE**

**HIGH PUSH/PULL FORCE**

**VERY RELIABLE.**

**NO CONTACT SHAFT POSITION SENSOR  
OPTIONAL**

**35ms TYPICAL GEAR CHANGE TIME**

**MAINTENANCE FREE**

**MORE COMPETITIVE THAN CURRENT TECHNOLOGY**

**AUTO SPORT CONNECTOR**

**PROGRESSIVE PUSHING MODE**

**ISOLATED POWER AND CAN**

**NO PUMP, NO SEAL, NO TUBE, NO FLUID ...**

**CAR ELECTRIFICATION IS THE FUTURE OF MOTORSPORT!**



MORE INFORMATION ON  
[WWW.XAP.FR](http://WWW.XAP.FR)

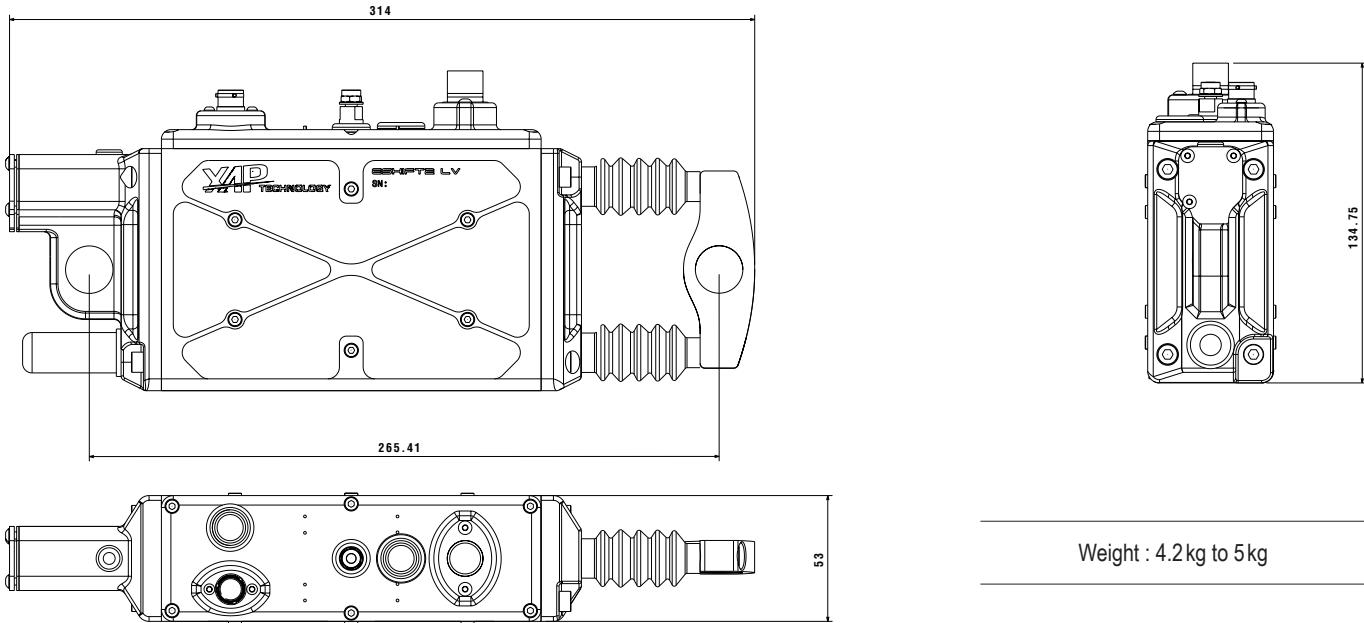


Baudrate	1 MBit/s
Config Options	Start Ramp Options
<input type="checkbox"/> Pulse ON	<input type="checkbox"/> Auto
<input checked="" type="checkbox"/> Auto center	Time 20
<input checked="" type="checkbox"/> Inverse Direction	Factor 12
<input type="checkbox"/> Safe Mode	
<input type="checkbox"/> Disp	
<input checked="" type="checkbox"/> Start Ramp	
<input type="checkbox"/> CAN Command	
UP Act Time	99.96
DW Act Time	23570
UP Ret Act Time	6190
DW Ret Act Time	48230
Power %	200
	Safety Time 200
	PWM on Time 7
	PWM off Time 2
	Sensor Bound Tol. 1000



### ► GEARBOX ACTUATOR: E-SHIFT2-LV3

#### DIMENSIONS



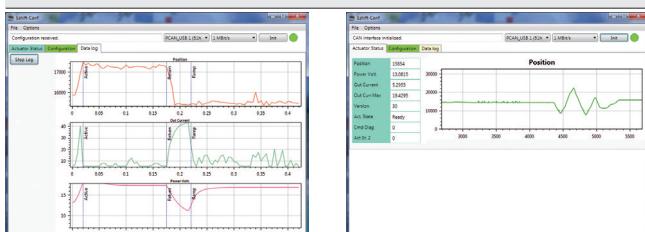
#### TECHNICAL SPECIFICATIONS

Stroke	+/- 18 mm.
Electric consumption	Equivalent to 20 W for one gear shift each two second
Peak current	100 A
Started pushing force	900 N max
Middle pushing force	700 N max
Diagnostic on Can	YES
Command by Can	YES
Command by wire	CMD_UP, CMD_DOWN, CMD_LP, CMD_HP
Supply Voltage	9 to 18v
Operating Temperature	100 °c. max

#### PROGRAMMING SOFTWARE

##### Useful Validation Features :

- Closed loop regulation on standby position
- Vibration mode to help the disengagement and avoid dog to dog
- Progressive pushing



#### REFERENCES

E-Shift2-LV: Electromagnetic actuator.

RO option: Ball joint mounting.

SP option: Contactless position sensor.

PROG-E-Shift2-LV: Programming kit.