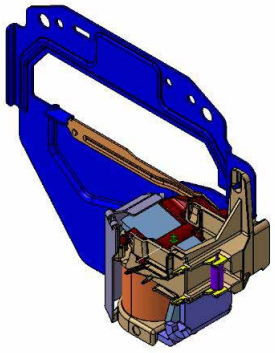
Actuator for Halogen Modules

BIF EM ACTUATOR

Characteristics:

The bi-function actuator provides a low beam cutoff and a high beam by rotating a reflective shutter. This improves beam pattern homogeneity and optimizes the size of the headlamp. Its command signal is an analog voltage sent directly by a manual switch or automatically by a sensor. The cutoff is driven by an electromagnet.



Performance:

Performance (typical, other requirements can be adjusted)						
Voltage range	Temperature range	Movement of cutoff	Consumption	Time transition at 23°C LB → HB	Time transition at 23°C HB → LB	lifetime
(V)	(°C)	(deg)	(mA)	(ms)	(ms)	(cycles; years)
9 - 16	-40 - +155	0 to 15	≤220	≤100	≤100	200k cycles ;

Electrical connection and control

Low beam position at rest	Open circuit
High beam position powered	Supply voltage (9-16V)
Connector	Mate with JST XLP-02V (2 pins)
EM	Internal patented design
EMC	Several spec validated (details on demand)

Design features (see drawing for details)

Fixation on module	Between a lens holder and a reflector / heat sink
Dimensions	35.2 x 87 x 105 mm
Max cutoff weight	2 grams
Cutoff axis rotation	x axis
LB / HB Z openning	8 -12 mm
Notch point precision X Y Z	+/- 0.4mm