

TRL 4

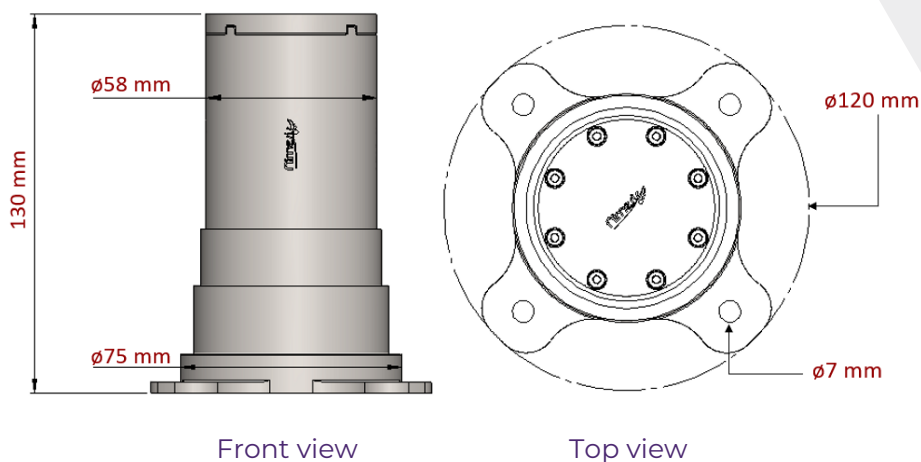
RAPID ACTUATOR

HIGH-PERFORMANCE SMART ACTUATOR
FOR SPACE APPLICATIONS

- ✔ Resettable
- ✔ Ultra rapid actuation
- ✔ Plug & play
- ✔ Synchronisable
- ✔ Reliable
- ✔ Non explosive



LARA smart rapid actuators provide an efficient solution for stage and fairing separation of launchers and the release of satellites.



OVERVIEW

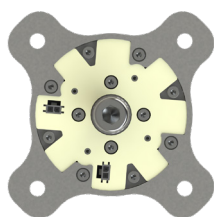
- Compatible with a wide range of launchers and satellites
- Ultra rapid <100ms
- Synchronicity <50ms
- Operational temperature range: from -100°C to +80°C
- Resettable w/o disassembly

FEATURES

- SMA component (Shape Memory Alloy: NiTi)
- Redondant SMA trigger
- Release nut M10
- At least 50 cycles

TECHNICAL DATA

Flight Limit Load	45kN (margin incl.)
Mass	< 1 Kg
Resettable In Situ (launchers and S/C)	YES : up to 50 times, by the end user
Operational temperature range	[-100°C ; +80°C]
Activation time	< 100ms Dispersion < 30ms
Dimensions at the ends	Height: 130 mm Diameter: 120 mm
Voltage (V)	2 configurations: 16 V or 32 V
Current (A)	7 A
Power (W)	112 W or 224 W



LARA developed with



LARA

