

## 'Metron' Actuators

### Description

'Metron' Actuators are single shot devices which rapidly convert small electric signals into useful mechanical work output. The CEUK range of 'Metron' Actuators are well known in the Defence, Safety and ATM Security markets. They are highly reliable, compact single shot devices which can push, pull, cut or shear with a power to weight ratio in excess of 10,000:1. They operate within milliseconds of receiving the appropriate electrical impulse. The pyrotechnic reaction is fully contained within the metal body and the device is therefore classed as non explosive. The pressure generated drives a piston to produce the desired mechanical effect.

### Application

- Puncturing e.g. releasing high pressure gas
- Pushing mechanical loads e.g. opening valves
- Locking to prevent rotary or linear motion
- Releasing to enable rotary or linear motion
- Operating a sprinkler bulb
- Operating a switch or delay
- Safety and Arming Units
- Cutting cables or bolts

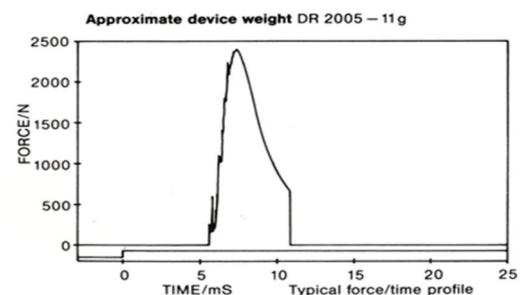
### Example Uses

- Fire suppression systems
- Cash in transit / ATM security
- Surge protection / electrical disconnect
- Vehicular pedestrian safety systems
- Parachute lanyard cutting
- Gas inflation (e.g. flotation systems)
- Missile wing erection
- Aircraft oxygen systems



### Specification (values shown are representative)

Nominal Energy:	6 millijoules
Resistance Range:	0.9 - 1.6 Ohms
Max No Fire Current:	
30 sec pulse:	0.15A
0.050 sec pulse:	0.3A
Min Single Fire Current:	
DC:	0.6A
10ms pulse:	0.9A
Recommended Single Firing Current:	1A
Recommended Series Firing Current:	3A
Maximum Monitoring Current:	0.01A



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