## Medium-Duty Hold-Down Release Mechanism

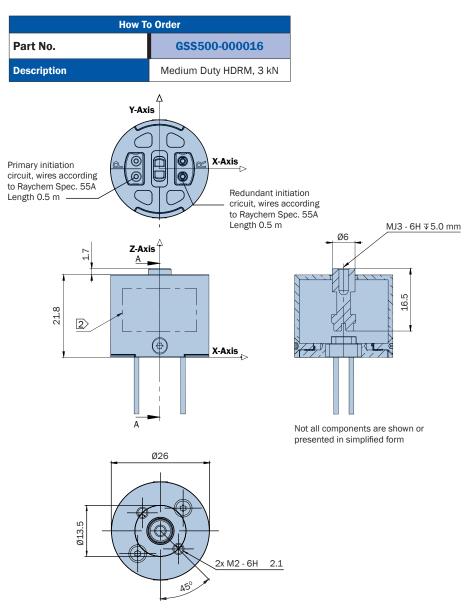
### 3 kN Release Preload Electrically and Mechanically Redundant



#### **HOLD-DOWN RELEASE MECHANISM, MEDIUM-DUTY**



- Pyrotechnic-free alternative (low-shock fuse-wire) for single-event release of deployable space systems
- Electrical actuation:4 Amperes
- User-serviceable and refurbishable units
- Ruggedized against transient and noise (EMI/EMP/ESD/RFI) inputs
- Extended temperature ranges: -150°C to +150°C
- Easy 15-minute on-site refurbish, order refurbishment initiator P/N GSS501-000009
- Made by Glenair in Salem, Germany



#### MATERIAL/FINISH

Aluminium alloy, Stainless steel, Polyamidimid GF30%

#### **NOTES**

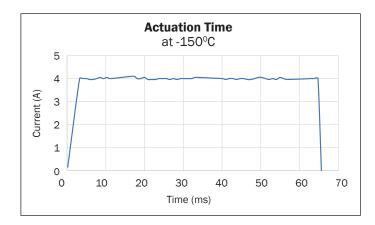
- Unit is identified with Glenair name, CAGE code, part number, and date code, space permitting. Primary initiation circuit identified with "P" and redundant with "R".
   See 2.>
- Release preload: 3 kN
- Reference Glenair P/N GSS501-000009 for refurbishment initiator



# Medium-Duty Hold-Down Release Mechanism

## 3 kN Release Preload Electrically and Mechanically Redundant





lested Capability for GSS500-000016	
Nominal Preload	3 kN
Proof Preload	3.3 kN
Ultimate Load	7.4 kN
Weight	Max 46 g with 0.5 m Harness
Electrical Resistance	0.3 – 2.0 Ω
Sine Vibration 3 orthogonal axes	25 g's
Random Vibration 3 orthogonal axes	50.9 g <sub>rms</sub>
Actuation Time	Max 70 ms @ 4.0 A at -150°C
Admissbile Shock Input	2849 g's at 5 kHz
Source Shock	Max 100 g's at nominal preload
Life Test	Mechanical components qualified for 10 times use with refurbishment initiators
Operating temperature range	-150°C to +150°C
Preload drop over 6 months	<5.0% loss at nominal preload
Allowable Angular misalignment	2°
Ероху	Outgassing requirements per ECSS

