Compact Plus Collective

Built for control

A UH-60 style active collective used with the Inceptor Control Module (ICM) and 60V supply to provide forces up to 110N at 500 mm FRP. The Compact Plus Collective features screw ring mounted grip and pole interface reconfigurable grip. Utilises 2 axes in the ICM. Feature-rich, highly reconfigurable and suitable for single or dual (linked) cockpit configurations.

Features

• Programmable feel characteristics
• Real-time control
• Reconfigurable
• Electronically linkable

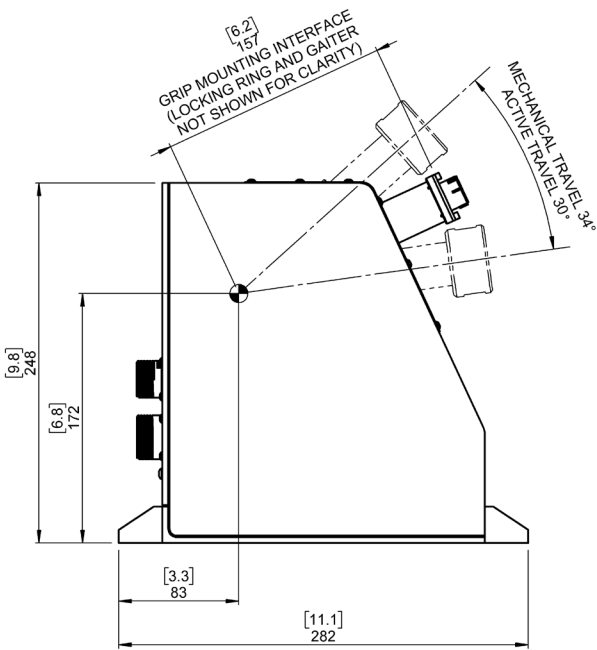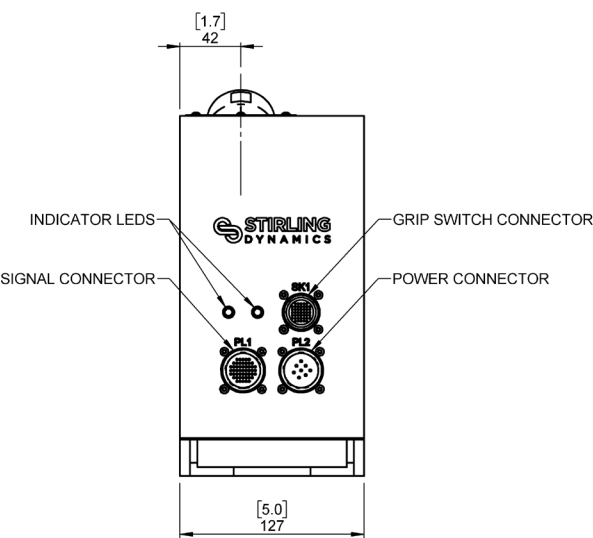| Description	Specification
Continuous operational force*	110N (25 lbf)
Active travel	30°
Maximum velocity	120°/s
Interconnecting cables	2 x Interconnecting cable (5.5 m max) 1 x Power cable 1 x Optional grip switch cable
Grip type	Short or long pole with or without flying leads for grip switches, UH-60, generic with switches
Grip interface	MIL-SPEC D38999/26FD35SN with threaded locking ring
Grip switch wiring	Flying leads to customer I/O or via ethernet
Software interface	UDP over 1000Base-T ethernet
Input power supply	ICM
Weight	7.5 kg (16.5 lb)

* At nominal grip reference point of 500 mm (19.7")

Our products work even better together

With versatility in mind, all of our active controls are commanded by a dedicated electronics Inceptor Control Module (ICM), which provides an ethernet interface allowing minimal integration effort. From a single fixed wing cockpit to dual rotary cockpit configurations, multiple ICMs can be used in combination to provide designers with total flexibility.

Product Integration

INDICATOR LEDS

SIGNAL CONNECTOR

GRIP SWITCH CONNECTOR

POWER CONNECTOR

[1.7] 42

[5.0] 127

[6.2] 157

GRIP MOUNTING INTERFACE (LOCKING RING AND GAITER NOT SHOWN FOR CLARITY)

MECHANICAL TRAVEL 34° ACTIVE TRAVEL 30°

[9.8] 248

[6.8] 172

[3.3] 83

[11.1] 282

How do I connect and control my new Stirling simulator product?

Stirling Dynamics' active controls interface to your simulator software through a UDP over LAN connection. Multiple systems can be connected via the LAN if they have their own IP address. We can provide a separate GUI (Graphical User Interface) that can seed the devices with specific settings, or you can send message sequences to configure your devices in real time. Stirling Dynamics will also provide you with all the integration documentation you will need to successfully set up your new control product.

Dashed lines supplied by client.
Dotted lines supplied by client or Stirling Dynamics.

Grip Switch Cable

60V Power Supply Unit

Power Cable

Mains Power Cable

Emergency Stop

Simulator Computer

Ethernet Cable

Inceptor Control Module

Motor Cable (max. 5.5 m)

Signal Cable (max. 5.5 m)

Grip Switch Cable

Motor Cable (max. 5.5 m)

Signal Cable (max. 5.5 m)