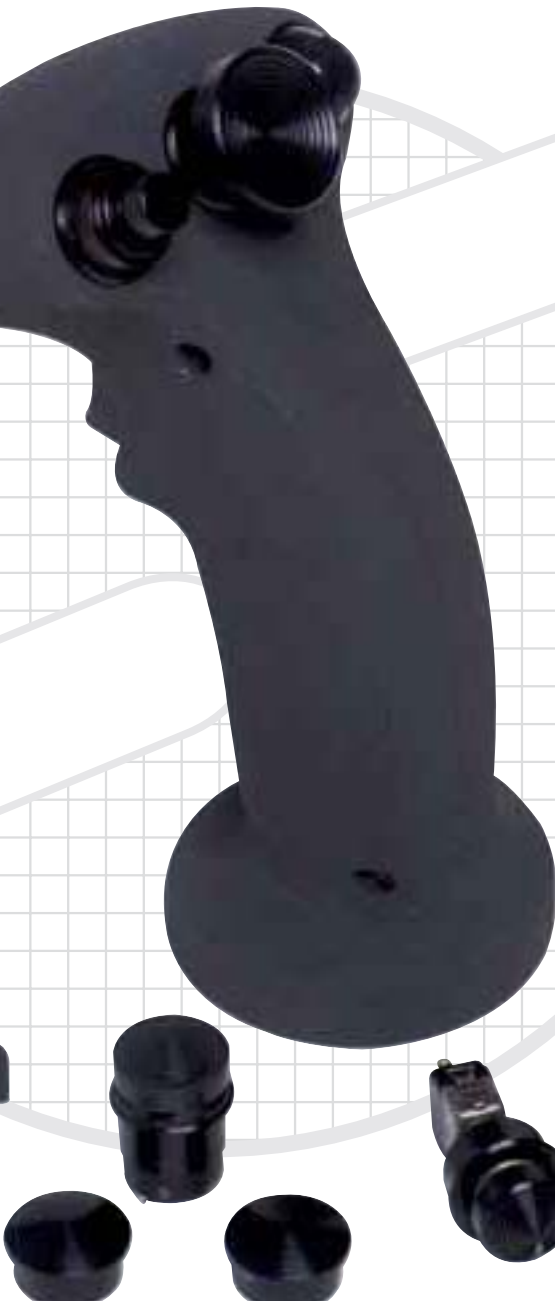




MG1 CONTROL GRIPS



Control grips act as the direct interface between Man and machine allowing control of essential machine functions. The design of the grip often defines the usability, success and perception of quality of the overall system.

Daco offers two ranges of control grips. The first, described overleaf, is a series of modular products with standard options that can be configured in many different ways to make them suitable for the majority of applications. Alternatively, for those requiring more specialised products, we can provide a grip individually designed through our cost effective design service which is explained in the datasheet "Custom Built Hand Controllers".

MG1 control grips

MG1 control grips are standard products, available on short delivery times, that can be configured in many different ways to meet the majority of customer needs. They are suitable for use in demanding industrial or military applications. Cast from aluminium alloy they are extremely robust yet maintain a low mass, an important factor where high levels of vibration and shock may be experienced.

Control grips can be attached to a joystick base or connected to an extension cable but they are particularly effective when used as fixed grips fitted with force operated thumbsticks. This configuration can be panel sealed to IP67 and has the advantage that movements of the thumbstick are isolated from the operator's body movements. This is important in applications where random movements of the operator, perhaps caused by movement of the operating platform, could be translated into unwanted control outputs.

To ensure short delivery times, MG1 grips are held in stock pre-drilled to take a selection of force operated thumbsticks, buttons, trimmer switches, toggle switches or blanks. Other modular options include a range of 'in-grip' electrical interfaces and a choice of mounting configurations. All Daco hand controllers are manufactured under an ISO 9001 approved quality system and are covered by a minimum two year warranty.

Characteristics

- Wide operating temperature range
- Rugged
- Nearly 20,000 configurations possible
- High reliability
- Comfortable to use
- Accepts up to 4 functions
- Compatible with Daco joystick bases
- Available as fixed grip or attached to a Daco joystick
- Can be panel sealed to IP67 as a fixed grip
- Accepts Daco force operated thumbstick

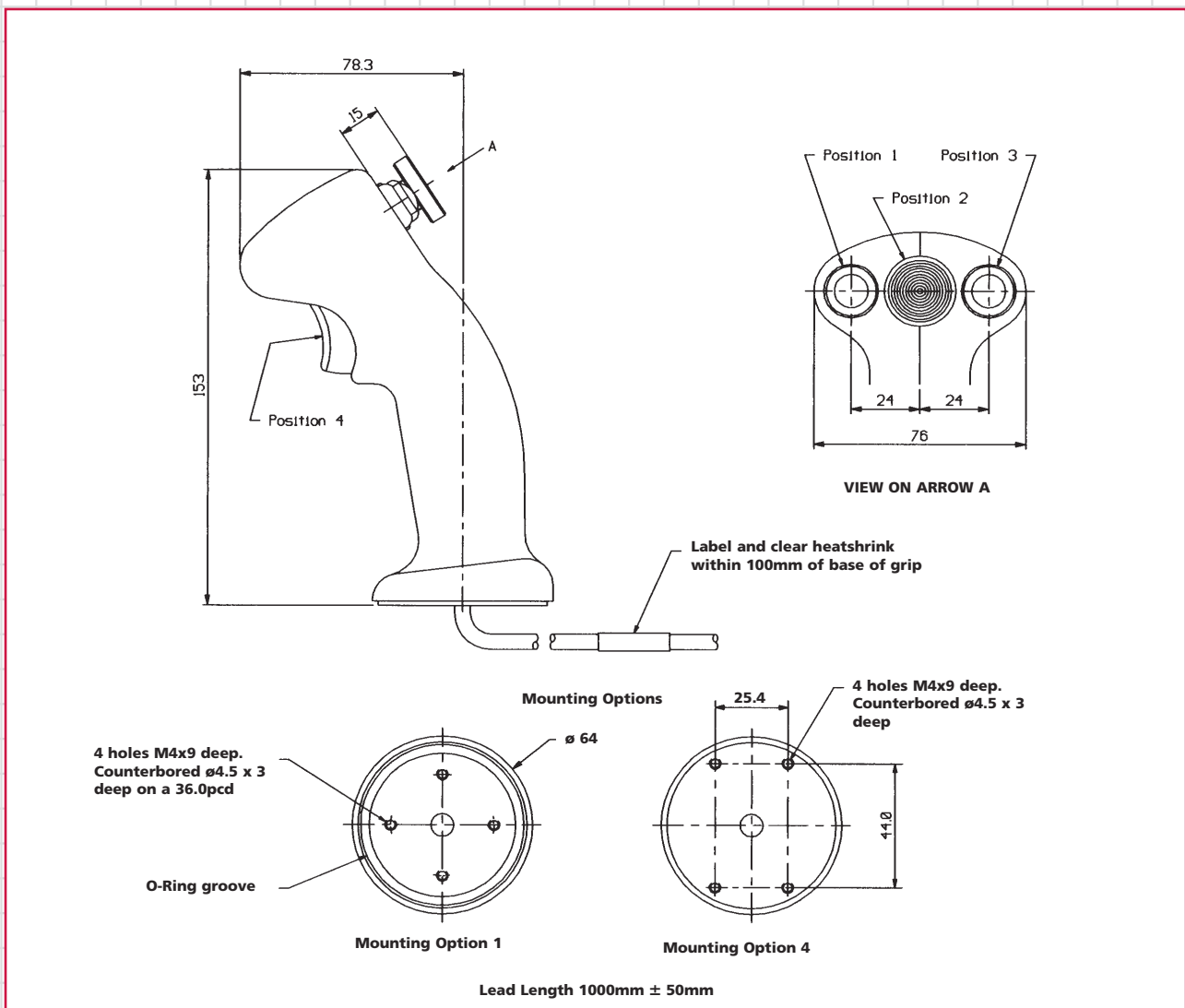
Specification

The large number of configurations means it is not possible to show every combination. In general, MG1 control grips are cast using LM6 aluminium alloy, have an operating temperature range of -40 to +70°C, weigh approximately 500 grams and are painted using Nextel 3101 grey B21 paint. Individual specifications are available upon request.

INTERFACES HAVE THE FOLLOWING SWITCH CAPABILITIES:

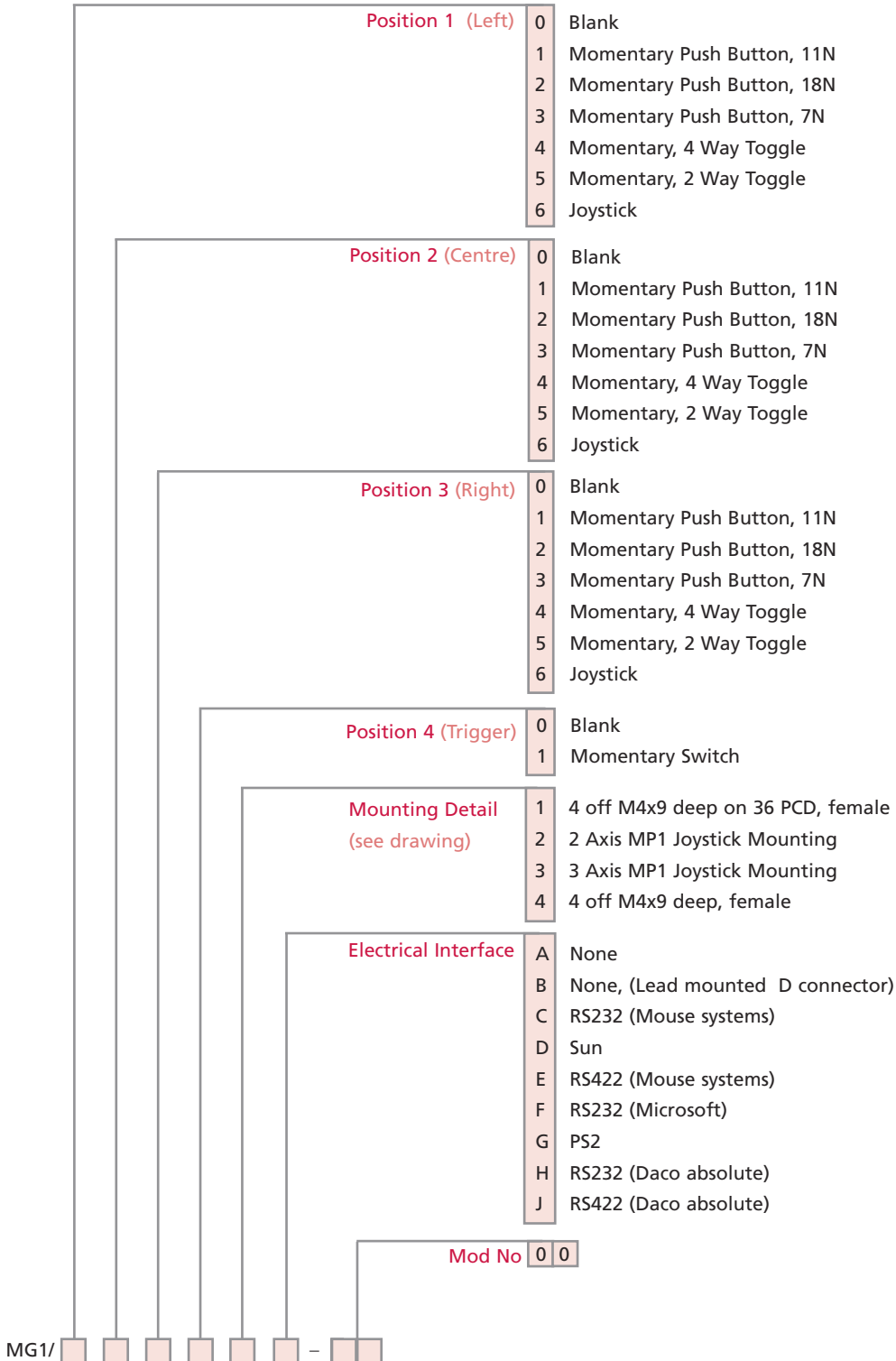
- Option C - 3 Switches
- Option D - 3 Switches
- Option E - 7 Switches
- Option F - 2 Switches
- Option G - 3 Switches
- Option H - 8 Switches
- Option J - 8 Switches

Dimensions and mounting options



How to Order

To order the MG1 control grip please refer to the drawing and use the full list of modular options in the chart below to create a descriptive part number.



NOTES:

The Mod number is used to record minor design changes. If you wish to make such a change please contact us to discuss possibilities. In all other cases the Mod number '00' should be quoted.

All interfaces can be supplied on leads but the 'in-grip' version of options C, D, E, F, H and J will be supplied unless otherwise requested.



Grip fitted with 18 Newton push button,
miniature force joystick, 7 Newton
push button and trigger



Modular grip with switch,
joystick and blanking options



"In-grip"
interface circuit

MG1 grip fitted
to MP1 displacement
joystick base



A stylized illustration of a hand holding a tool, rendered in a light grey grid pattern. The hand is positioned on the right side of the page, with the fingers gripping a dark grey handle. The tool's head is visible at the top right. The background is white with a faint grid pattern.

DACO hand controllers

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