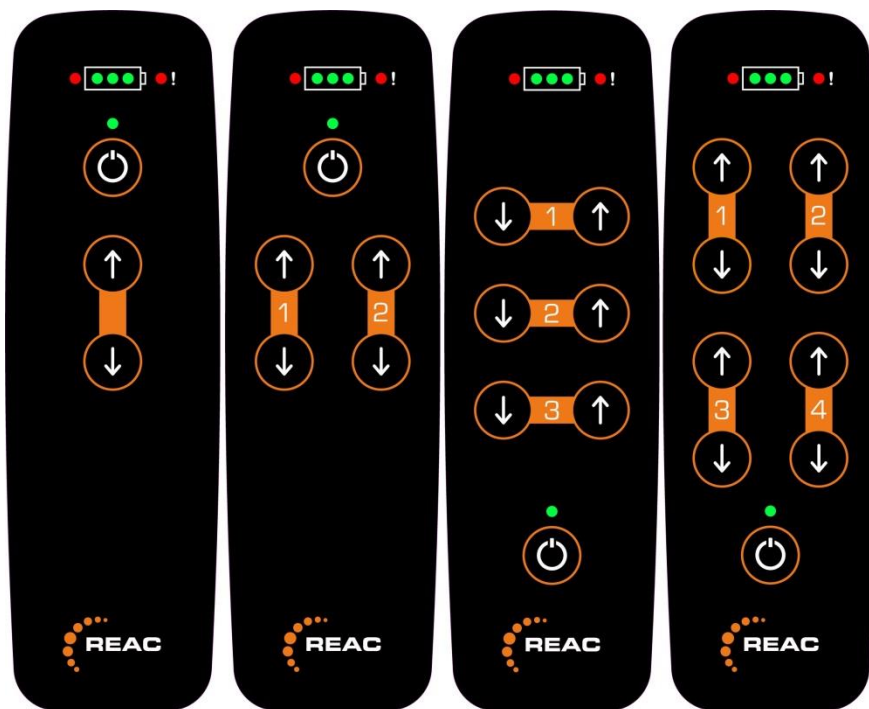# Layout guidelines Hand Control RHC10

This document includes guidelines for designing your unique top foil layout to the REAC hand control. Dimensions, possible switch and LED positions are described in REAC drawing: 20092100. In addition to this drawing the following points will be helpful to give your layout a good design in respect to functionality and user interface.

Switch and LED position

The switches, marked S0 through S9 on the drawing have in most cases more than one possible contact position. Any of the various positions can be used for each switch. Note: there must be at least one free (not used) position between every used position. This will make the minimum distance between used switches 22mm.

LEDs, marked D0 to D9, can be used at any or all positions but the colors will always be as specified in the drawing.

The function of the LEDs and switches can be programed to your specific needs. Note: specific regulations can be relevant for the application of your product and must be considered.

One example: according to ISO 7176-14:2008 it is required to have an ON/OFF switch and a green light, indicating power on. EN12182:2012 specifies that a battery status indicator is required. To fulfil this requirement our recommendation is:

- The top horizontal row of LEDs (red, green, green, green) to be the indicator of battery status.
- Green LED D4 or D6 to be a used as power indicator together with one of the surrounding switches as power ON/OFF.

Buttons

The "push buttons" active diameter is about Ø8mm. The active area is where you have to push to close the contacts. To make the contacts feel more like a push button there is an embossed area around the contacts. The minimum diameter of the embossed area is Ø12mm. The embossed area itself does not need to be round but edges need to be outside Ø12mm around the contact.

The embossed area can be larger, giving an illusion of a bigger button. The same illusive effect could be given if the graphics is exaggerated. Note: since the active contacts are Ø8 a large embossed areas could possibly make the user pressing in an embossed position without closing the switch.

If larger graphic fields are used we recommend marking the real button area in a contrasting color or by a marked line for example.

Design

The graphic work is preferably done in a vector based graphic tool.

Colors should be specified according to Pantone, RAL, RGB or similar color system

Embossed areas should be marked for example with a dotted line and a reference indicating "embossed area".

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