

ALGRA NDT FORCE SENSORS

EXTREMELY SENSITIVE METAL TOUCH
SENSOR KEYS

ALGRA®



WE ARE SETTING NEW BENCHMARKS IN METAL TOUCH TECHNOLOGY

'Metal touch with ALGRA NDT input technology is incredibly sensitive, yet unsusceptible to interference.'

Dieter Matter, CEO, Algra Group

Metal touch detection is easier than ever thanks to ALGRA NDT. Mechanical pressure on the keys is detected through metal sheets 0.6 mm to 1.2 mm thick without any interference. The careful arrangement of strain gauge sensors enable sensitive operation with thicker metal surfaces.



sample case ALGRA NDT

A network of several strain gauges detects extremely sensitive mechanical keystrokes and at the same time also filters out interference signals by intelligent analysis. The gauges recognise even the smallest strains in extremely rigid, metallic materials, such as stainless steel or aluminium.

Typical areas of application include products such as household goods with special aesthetic design and products that must be highly robust and waterproof.

Benefits

High level of design exclusivity:

The control panel front is made using an integrated metal touch layer.

Glove-sensitive operation:

Operation is just as sensitive with gloves on as without.

Highest water protection rating:

Can be used to full capacity in wet conditions.

Vandalism protection:

Use of metal control panel fronts protects against vandalism.

Dynamic key sensitivity:

The key sensitivity can be set from 50 g.

High temperature operational capability:

Temperature range of -25°C to +85°C

Long service life:

The tested service life is over 10 million cycles.

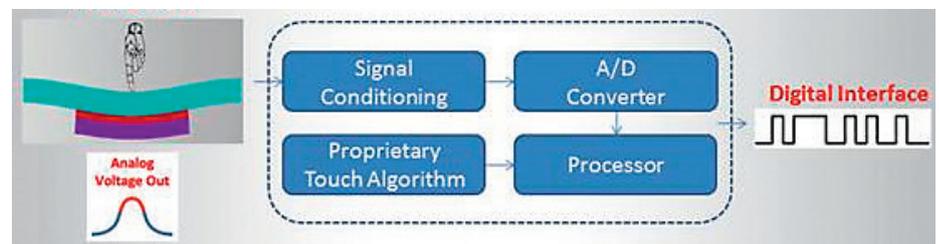
Easy assembly:

Simple assembly using self-adhesive tape (peel-and-stick).

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Integrated signal processing

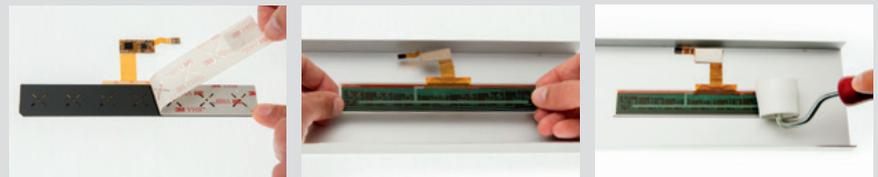
The 10-pin FPC cable has a μ C and an ASIC with an I²C interface for signal processing:



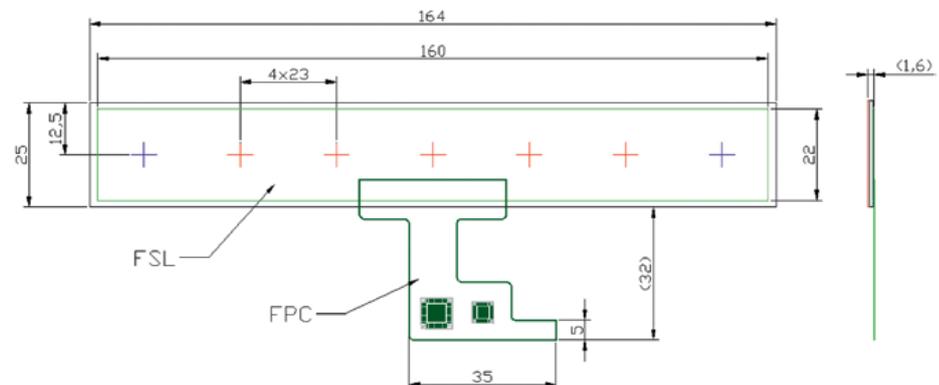
Peel-and-stick

This film can be easily adhered to the back of a metal panel front using the peel-and-stick process:

1. Remove protective foil from ALGRA NDT module
2. Align module
3. Press on firmly



Five key standard modules, with or without integrated key lighting



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