

NEWS RELEASE

PR0809E

**Tiny, Precise, Reliable – ALPS Magnetic Sensors
Set new Standards***Wide Area and High Reliability Magnetic Field Detection
Increases Design Flexibility*

Duesseldorf, Germany, April 03, 2009 – ALPS ELECTRIC EUROPE GmbH covers with the magnetic sensors of the HGDx, HGPxx, and HGAR series a wide range of product applications. From pure switching functionality (open/closed recognition), through to position recognition and number of revolutions recognition, a wide range of differing types are available. Depending on the application the user can choose between different voltages, current saving and speed variants (numbers of revolutions of over 200.000 RPM are possible) as well as products with analogue or digital output. For incremental applications are the so-called latching types of the HGPxP series available. With the HGPxD series ALPS offers a special type with two out of phase working sensors, with which an incremental encoder can be achieved.

Due to this wide ranging variety of products usage in nearly all applications is possible from consumer products via home appliances through to industrial applications, whether in mobile and/or stationary devices. The compact construction of the magnetic sensors provides a novel perspective where size and design is concerned.

Varieties

Part number	Type	Voltage / Current	Detection
HGDE-series	switching type	1.8 Volt - 3 μ A	50 msec pulse period
HGDF-series	switching type	5 Volt - 3 mA	0.033 msec pulse period
HGDG-series	switching type	5 Volt - 0,25 mA	0.33 msec pulse period
HGPxP-series	latching type	1.8 Volt - 10-35 μ A	0.32–1.3 msec pulse period
	latching type	5 Volt - 2 mA	35 μ sec pulse period
HGPxD-series	incremental type	1.8 Volt - 20-70 μ A	0.32–1.3 msec pulse period
	incremental type	5 Volt - 4 mA	35 μ sec pulse period
HGAR-series	analog output	1.5-5 Volt - 0.3 mA	60° degree

Applications	Mobile	Home / Consumer	Industry
HGD-series open/ close detection	mobile phone notebook camera	washing machine desktop printer power on/off valve open/close	door lead guide for industrial trucks
HGAR angle position detection	camera zoom control	printer/copy machine paper stack level	light position pedal position robot arm angle level meter
HGP-series Rotation detection	phone Jog-dial mice wheel	flow meter printer paper load control	engine motor speed control van speed



ALPS Electric Co., Ltd.

Since its establishment in 1948 ALPS has grown as a comprehensive manufacturer of electronic components. At present ALPS is creating innovative high-value-added products in its main business segments – Components, Magnetic Devices, Communications, Peripheral Products, and Automotive Electronics – which are contributing to the advance of a digital society. ALPS is a global company that carries out its operations with 23 production bases in 9 countries as well as 57 sales bases in 14 countries. Consolidated net sales in the year ended March 31, 2008 amounted to YEN 693 billion.

ALPS ELECTRIC EUROPE GmbH, a subsidiary of ALPS Electric Co., Ltd., was established in 1979. Since 1989, the European Head Office has been located in Düsseldorf, where a team of specialists works in Sales, Marketing, and Product Engineering. The activities of our branch offices in Munich, Paris and Milton Keynes, Stockholm, Gothenburg, our sales office in Milan and our European distribution work are coordinated from Düsseldorf.

Contact:

ALPS ELECTRIC EUROPE GmbH
Phone.: +49-211-59 77-0
Fax: +49-211-59 77-146
Email: info@alps-europe.com
Internet: www.alps.com

PR Agency:

MEXPERTS AG
Kurt Loeffler / Peter Gramenz
Phone.: +49-89-897361-0
Fax: +49-89-87 29 43
Email: kurt.loeffler@mexperts.de
Internet: www.mexperts.de
Press Portal: www.presseagentur.com

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