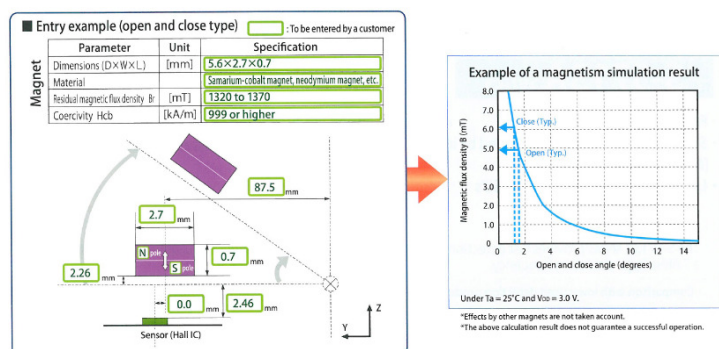


Press Release

S-5713A Series Fast Unipolar Hall Sensor IC's

The new south-pole sensing Hall Sensor Switch IC series is completely designed in Low-Power-CMOS providing fast and safe detection of magnetic field at moderate power requirements of 1750µA typ. with a high sensitivity for magnetic flux. The presence of a flux density of more than 6.1mT (= 61G (Gauss)) changes the output level of both output configurations "CMOS" or "N-channel-open-drain" from "H" to "L" and vice-versa to "H" or "High-Z" when flux density reduces to below 4.9mT. The detection frequency of 7.6KHz resulting in a 132µs detection period, permits acquisition of fast approximation-, displacement-, opening- and closing-movements, as well as rotation cycles. A mere 400µs after application of power the sensor is fully operable. The supply voltage range is from 4.5V to 5.5V and the operating temperature range lies between -40°C and +85°C. All these parameters contribute just as well to a safe and stable operation as an improved magnetic noise resistance characteristic. The Hall sensor is encapsulated in a very small SOT-23-3 package which supports very flat designs of high packing density, allowing close approach with magnets and still providing a power dissipation capability of 430mW. Applications are found in position- or state-recognition, approximation indication, door-positions in home appliances, access control, level detection etc.. Contact-less switching on the other hand means natural explosion protection, for which reason the application even under environmentally critical conditions might be the choice.

To reduce burden and cost and ensure a fast design success with Hall sensor systems, Seiko Instruments is offering a high-precision-magnetism-simulation-service which can be requested through the regional sales offices. Analysis can be done on parallel, slide, open and close and rotation approximation. This service is useful when selecting a magnet and determining the size of a system.



Seiko Instruments führt auch Magnete im Herstell- und Lieferprogramm um Hall IC anzusteuern. Der DIANET Sm2Co17 DM-30 mit einem Durchmesser von 3,0mm und einer Höhe von 1,0mm ist eines der erprobten Beispielprodukte.

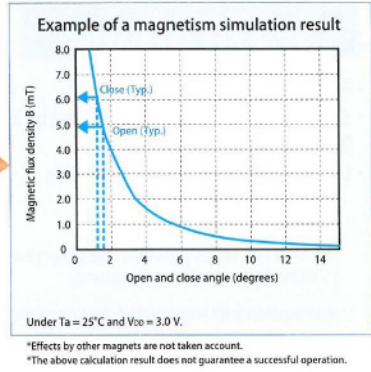
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■ Entry example (open and close type) : To be entered by a customer

Parameter	Unit	Specification
Dimensions (D×W×L)	[mm]	5.6×2.7×0.7
Material		Samarium-cobalt magnet, neodymium magnet, etc.
Residual magnetic flux density Br	[mT]	1320 to 1370
Coercivity Hcb	[kA/m]	999 or higher



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■ Entry example (open and close type) : To be entered by a customer

Parameter	Unit	Specification
Dimensions (D×W×L)	[mm]	5.6×2.7×0.7
Material		Samarium-cobalt magnet, neodymium magnet, etc.
Residual magnetic flux density Br	[mT]	1320 to 1370
Coercivity Hcb	[kA/m]	999 or higher

