Melexis Evaluation Board

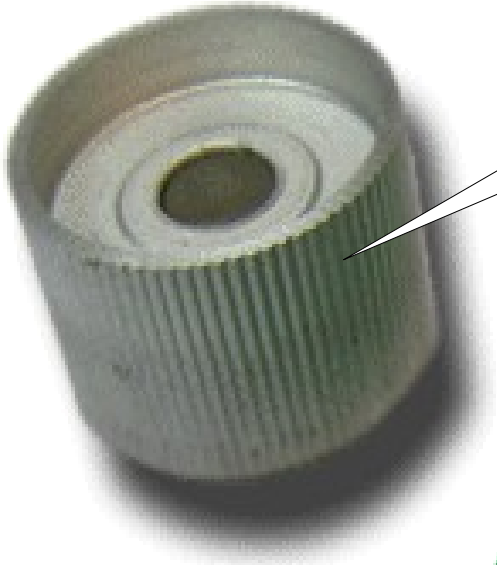
EVB90316-DC

(SOIC8)

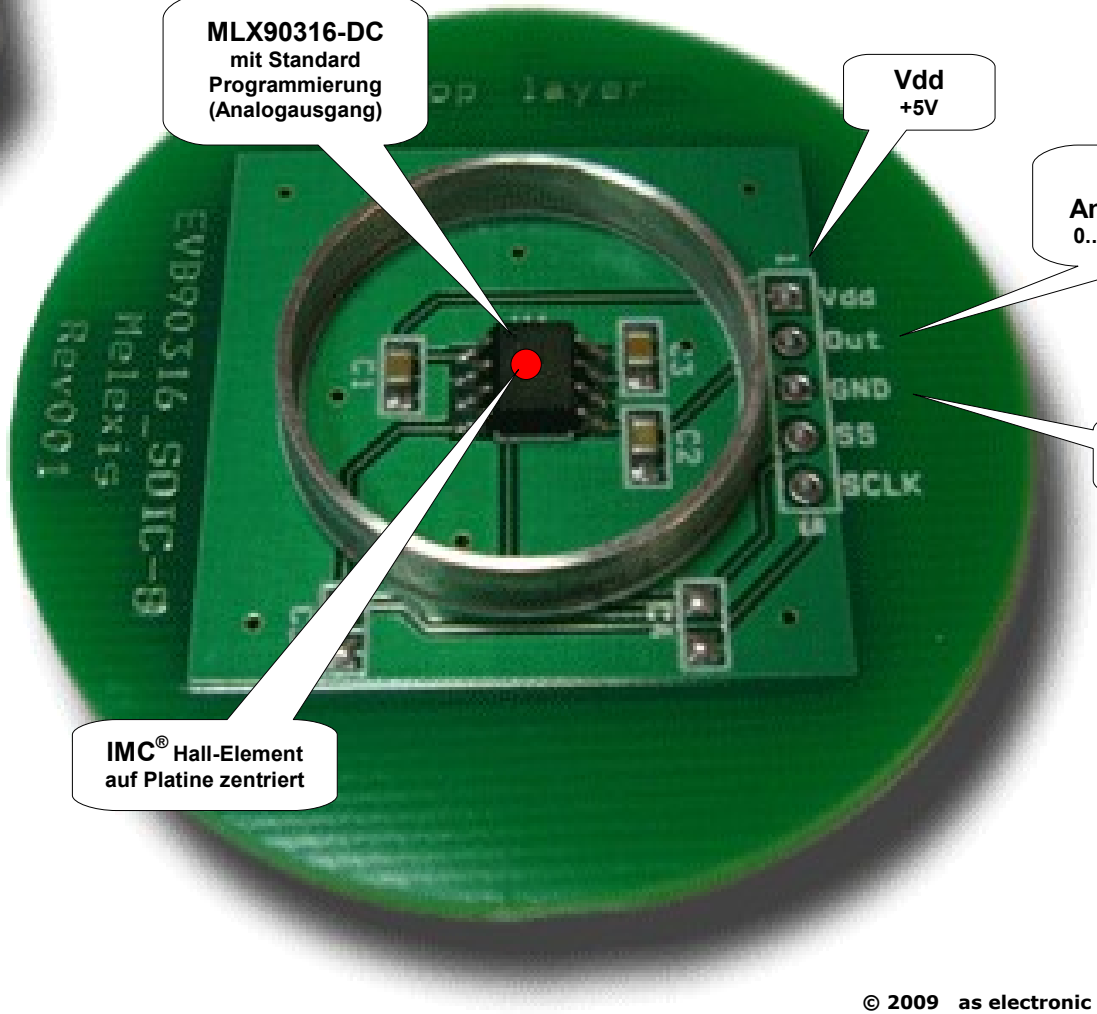
as electronic GmbH & Co. KG

Telefon +49(0)771/897746-0 • Fax -50

www.as-electronic.net



Drehknopf
mit Diametral Magnet



MLX90316-DC
mit Standard
Programmierung
(Analogausgang)

Vdd
+5V

Out
Analogausgang
0...360° = 0,5...4,5V

GND
0V

IMC® Hall-Element
auf Platine zentriert

Melexis Evaluation Board

EVB90316-GO

(TSSOP16)

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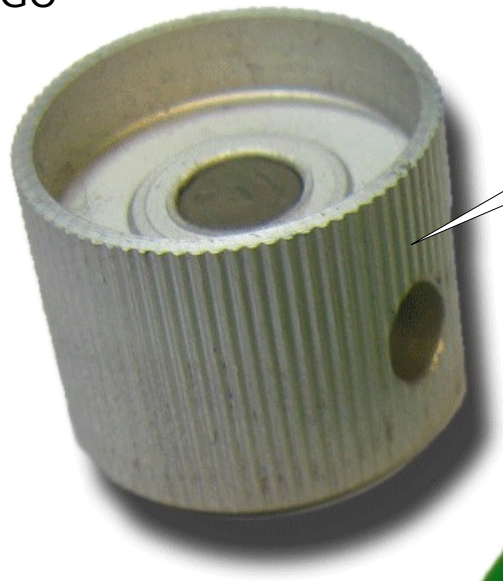
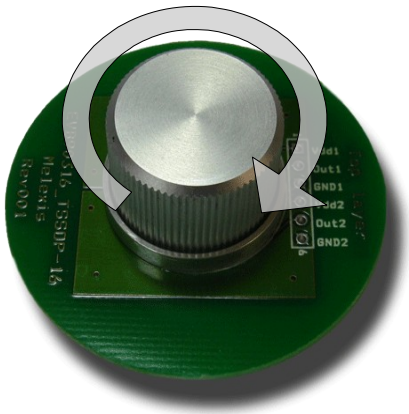
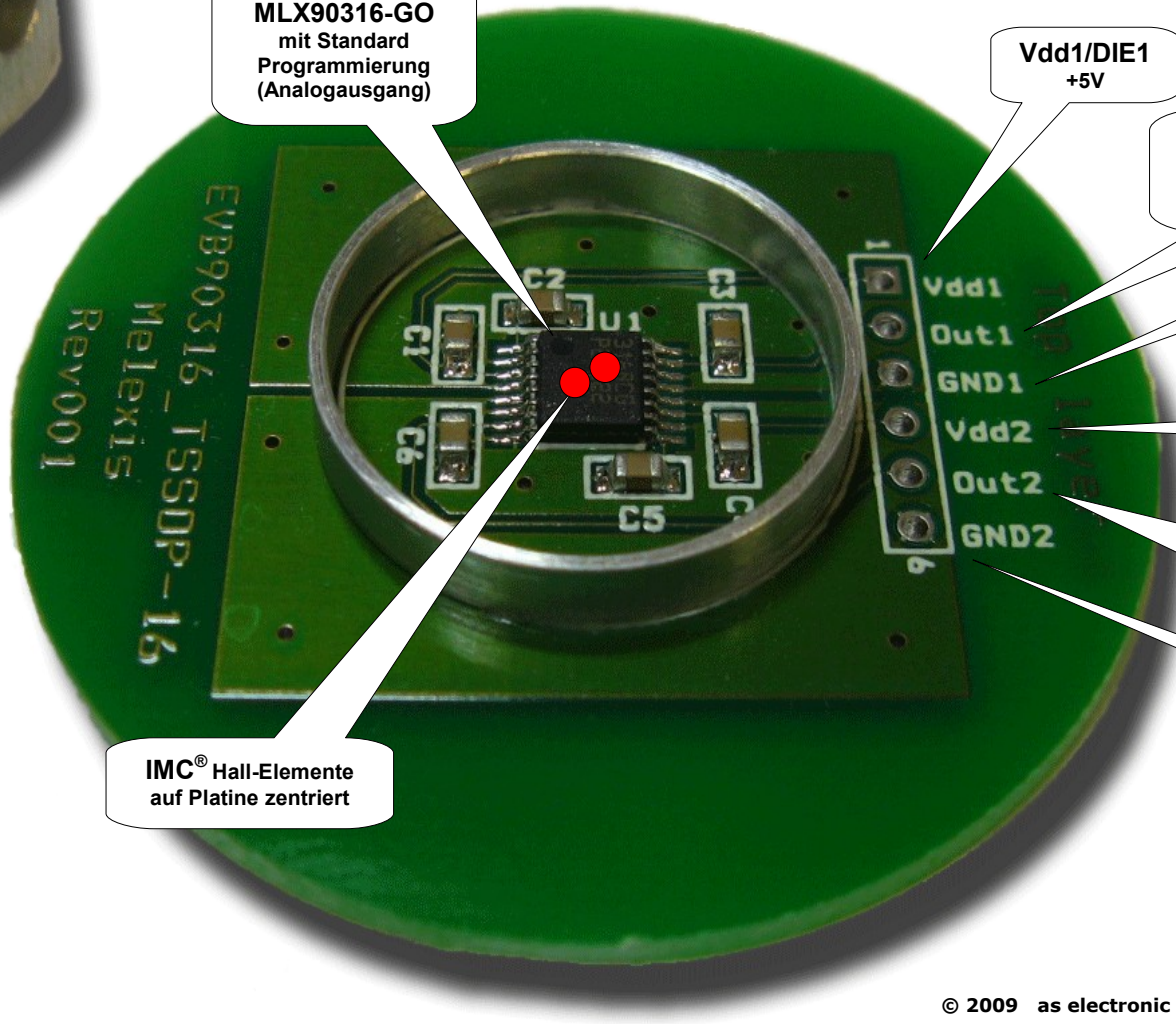


Drehknopf
mit Diametral Magnet





MLX90316-GO
mit Standard Programmierung (Analogausgang)

Vdd1/DIE1
+5V

Out1/DIE1
Analogausgang
0...360° = 0,5...4,5V

GND1/DIE1
0V

Vdd2/DIE2
+5V

Out2/DIE2
Analogausgang
0...360° = 0,5...4,5V

GND2/DIE2
0V

IMC® Hall-Elemente
auf Platine zentriert

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EVB90316

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EEPROM-Konfiguration
des MLX90316BCG auf dem EVB

LOCK [8]

Calibration and debug modes
- AutoRG [1]
- DisableFG [1]
- ResetOnFault [2]

Output stages mode
- Out1Enable
- Out1PWM [1]
- Out1Diag [1]
- Out1Mode [3]: 04 / 04

Filter [8]: 02 / 02
Filter A1 [16]: 6600 / 6600
Filter A2 [16]: 2A00 / 2A00

Clamping
- CLAMPLOW [%]: 9.7 / 9.7
- CLAMPHIGH [%]: 90.4 / 90.4

Custom ID
- ID1 [8]: 01 / 01
- ID2 [16]: 0010 / 0010
- ID3 [16]: 0068 / 0068

Discontinuity point
- DP [deg]: 0.0 / 0.0
- Clockwise [1]

Kick-down
- KD [deg]: 360.0 / 360.0
- KDHYST [deg]: 0.0 / 0.0

Linear Setup

SO [%/deg]	0.224	0.22
LNR_A_X [deg]	0.0	0.0
LNR_A_Y [%]	9.7	9.7
LNR_A_S[%/deg]	0.224	0.22
LNR_B_X [deg]	360.0	360.
LNR_B_Y [%]	90.4	90.4
LNR_B_S[%/deg]	0.000	0.00
LNR_C_X [deg]	360.0	360.
LNR_C_Y [%]	100.0	100.
LNR_C_S[%/deg]	-17.77	-17.7

Linear Graph

- HighSpeed [1]
- SPI [4]
- DISORTH2 [1]
- ARGC [1]
- PWM [1]
- PWMPOL1 [1]
- PWMLATCH [1]
- FSWAP [1]

RGAIN [8]	03	03
DEADZONE [8]	00	00
FHYST [8]	00	00
USERCFG1 [8]	00	00
RGThresL [4]	00	00
RGThresH [4]	0F	0F

Ausgangskennlinie
Analogausgang 0...360° = 0,5...4,5V