Incremental-Encoder IOH 58

+ Incremental interface
+ Type with hollow through shaft
+ Modular product line
+ Extensive parameter setting possibilities
+ Special parameters upon request
+ Number of pulses up to 36.000
+ Modular construction for mechanical customizations

Characteristics

Supply voltage ..... 11…28 VDC, optional 5 VDC ±5%
Current consumption without load ..... < 65 mA, < 80 mA at 5 VDC

Number of pulses/revolution [1] ..... ≤ 36.000

Version with push-pull
- Output level ..... 11…28 VDC, supply voltage
- Output current ..... ≤ 30 mA
- Output frequency ..... 150 kHz, ±15°
- Supply voltage ..... 11…28 V DC

Version with line driver
- Output level ..... 5 VDC, RS422
- Output current ..... ≤ 50 mA
- Output frequency ..... 300 kHz, ±15°
- Supply voltage ..... 11…28 V DC, optional 5 VDC

Incremental signals ..... A+, A–, B+, B–
Zero pulse ..... Ref+, Ref–
Programmable parameters
- Number of pulses
- Overspeed
- Enable/Disable Preset function, Set Ref+, Ref–

Preset ..... electronic adjustment of the reference signals Ref+, Ref–
Logic level ..... "0" < + 2 VDC, "1" = Supply voltage

Mechanically permissible speed ..... ≤ 6.000 min^{-1}
Shaft load ..... Own mass
Bearing life time ..... ≥ 3.9 * 10^{10} revolutions at
- Speed ..... ≤ 6.000 min^{-1}
- Operating temperature ..... ≤ 60 °C

Shaft diameter in mm 8H7, 10H7, 12H7
Permissible angular acceleration ..... ≤ 10^4 rad/s^2
Moment of inertia ..... typically 2.5 * 10^{-6} kg m^2
Start-up torque at 20°C ..... typically 3.7 Ncm
Mass ..... 0.3 kg…0.5 kg

[1] programmable parameter

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Environmental conditions

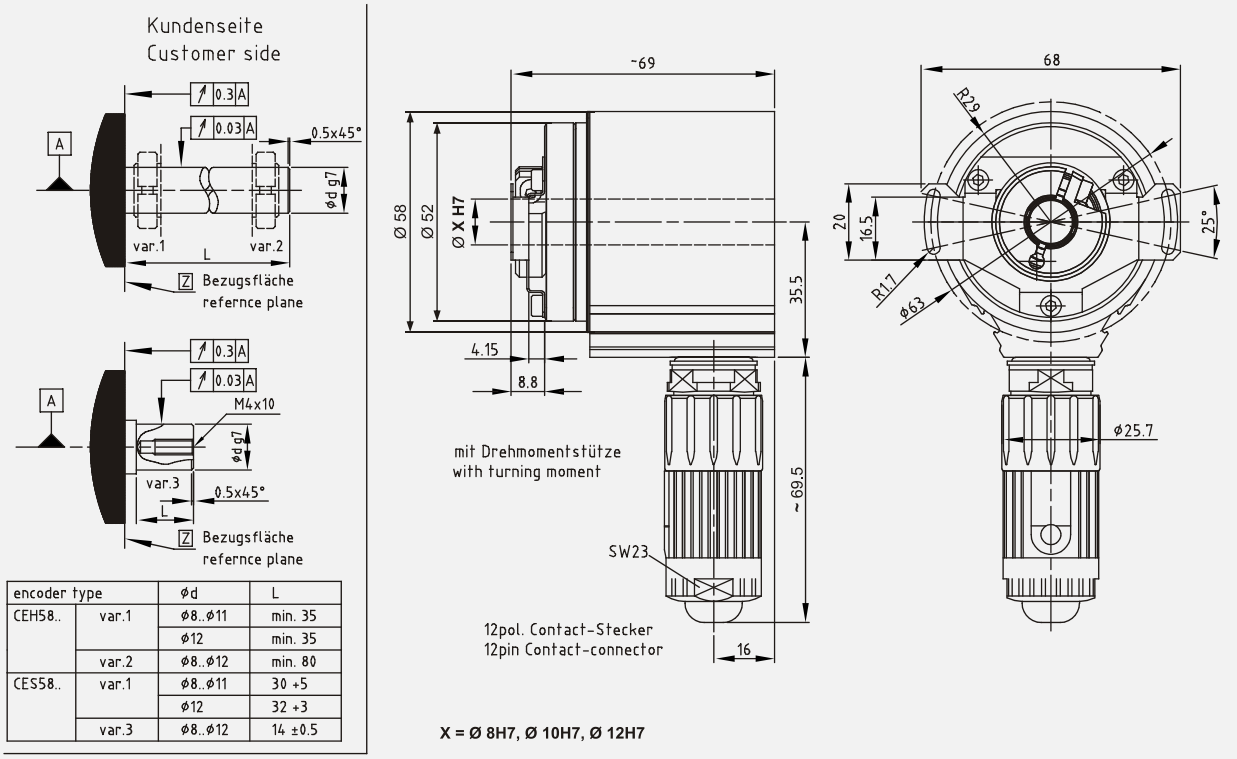
Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s², sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995..... ≤ 1000 m/s², half-sine 11ms
EMC
- Immunity to disturbance, DIN EN 61000-6-2: 2006
- Transient emissions, DIN EN 61000-6-3: 2007

Working temperature ..... 0 °C…+60 °C, optional -20 °C…+70 °C
Storage temperature ..... -30 °C…+80 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing
Protection class, DIN EN 60529: 1991 [2] ..... IP 54

[2] valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)



encoder type		ød	L
CEH58..	var.1	ø8..ø11	min. 35
		ø12	min. 35
	var.2	ø8..ø12	min. 80
CES58..	var.1	ø8..ø11	30 +5
		ø12	32 +3
	var.3	ø8..ø12	14 ±0.5

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