Incremental-Encoder IEH 58

TRWinprog

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+ Incremental interface

+ Type with hollow through shaft

+ Modular product line

+ Extensive parameter setting possibilities

+ Special parameters upon request

+ Short lead times

+ Further interfaces available

+ 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]	≥2…≤ 1.024, >1.024: 2.048, 4.096, 8.192

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
- Phase position: A / B, Zero pulse(s)
- Zero pulse: Pulse length, Number of pulses
- 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

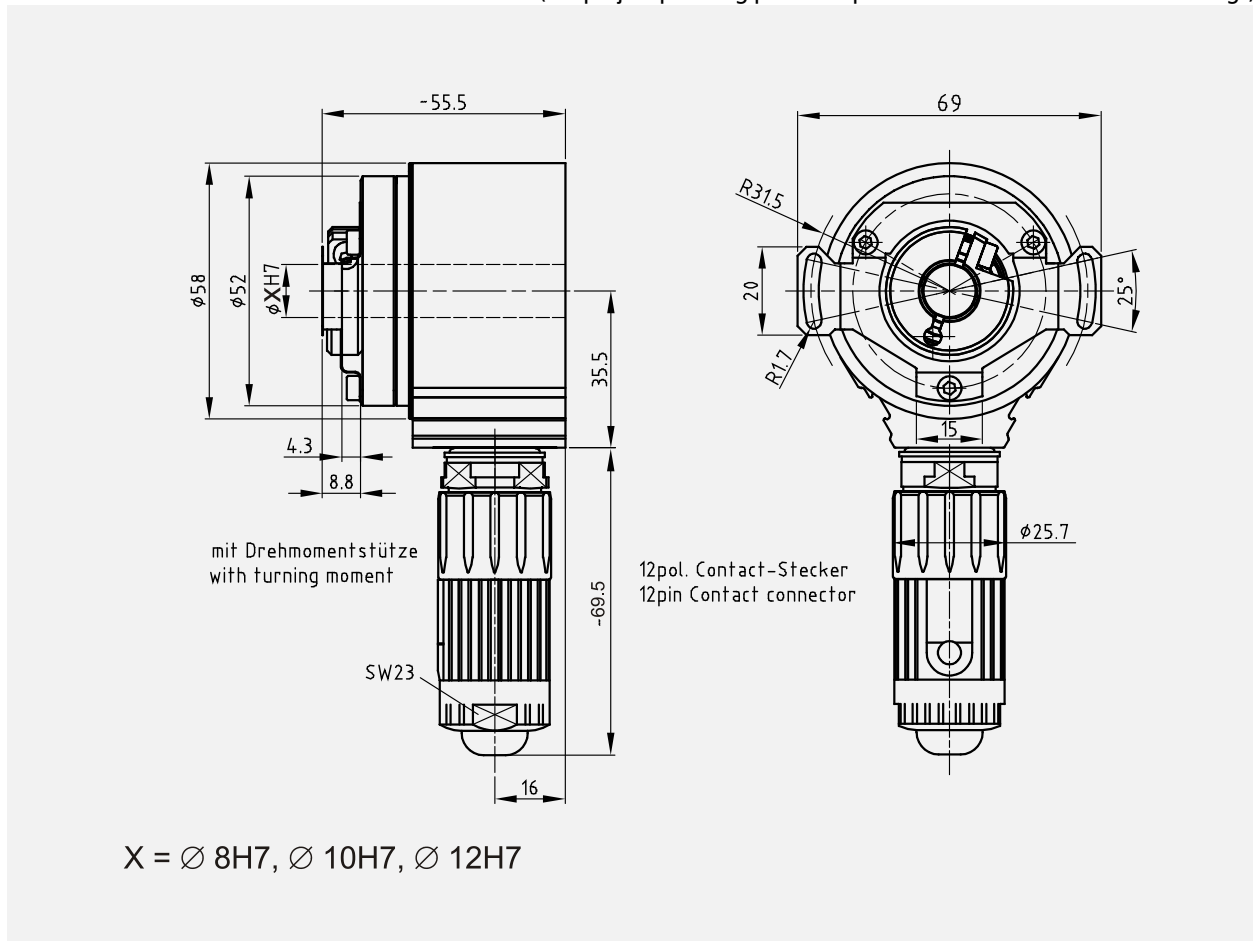|	
Shaft diameter in mm	8H7, 10H7, 12H7
Permissible angular acceleration	≤ 10^4 rad/s^2
Moment of inertia	typically 2.5 * 10^{-6} kg m^2
Start-up torque at 20°C	typically 3.7 Ncm
Mass	0.3 kg…0.5 kg

[1] programmable parameter

Subject to change

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Environmental conditions

Vibration, DIN EN 60068-2-6: 1996 .... ≤ 100 m/s^2, sine 50-2000 Hz

Shock, DIN EN 60068-2-27: 1995... ≤ 1000 m/s^2, 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!)

mit Drehmomentstütze
with turning moment

12pol. Contact–Stecker
12pin Contact connector

X = ⌀ 8H7, ⌀ 10H7, ⌀ 12H7

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