Incremental-Encoder IH 58 A

+ Incremental interface
+ Hollow shaft encoder for direct coupling to any drive shaft (Ø 4 ... 12 mm)
+ Number of pulses per revolution up to 10.000

Characteristics

Supply Voltage	11 - 27 V DC or 5 V DC
Output (11-27 V)	Push-Pull
- Maximum Current	max. 20 mA
- Incremental Signal	A, A neg., B, B neg.
- Marker Pulse	Z, Z neg., 1 pulse per revolution
- Maximum Output Frequency	160 kHz
Output (5 V)	Line Driver
- Maximum Current	max. 20 mA
- Incremental Signal	A, A neg., B; B neg.
- Marker Pulse	Z, Z neg., 1 pulse per revolution
- Maximum Output Frequency	300 kHz
Tolerance (at 20 kHz)	
- Phase Shift	± 10°
- Pulse Width	± 10°
Tolerance (at 100 kHz)	
- Phase Shift	± 30°
- Pulse Width	± 30°
Pulses per Revolution	1 to 10 000
Option	Sinusoidal Signal, 160 kHz (-3dB), voltage or current source 5 or 10 times the base PPR is possible. (i.e. 50000 or 100000 PPR)
Maximum Rotational Speed	10.000 RPM
Maximum Angular Acceleration	≤ 10^5 rad/s^2
Momentum of Inertia	1.5 x 10^{-6} kg m^2
Startup Momentum 20°C (68° F)	approx. 0.02 Nm
Weight	0.3 kg (.7 lb.)

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Environmental conditions

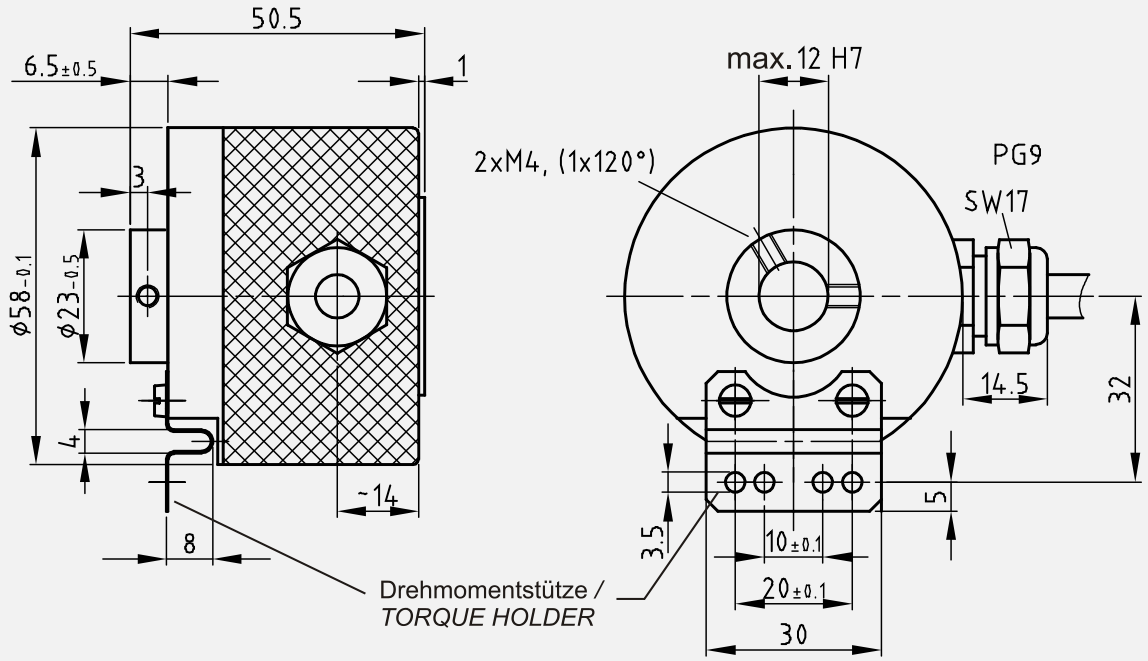
Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s², sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995..... ≤ 1000 m/s², half-sine 11 ms
EMC
- Immunity to disturbance, DIN EN 61000-6-2: 2006
- Transient emissions, DIN EN 61000-6-3: 2007

Operating Temperature..... 0° to 80°C (32° F to 176° F)
Extended Temperature (Optional) ..... -30° to +80°C (-22° to 176°F)
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing
Protection class, DIN EN 60529: 1991 *)..... max. IP 64, dependent on the connector or the connection technique

*) valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)



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