Incremental-Encoder IS 58 U

+ Incremental interface
+ Type with stub-shaft-mounting ∅ 8, 10 or 12 mm
+ Small compact design
+ Universal applications
+ Number of pulses per revolution up to 4.096, others upon request

Characteristics

Supply Voltage	11 - 27 V DC or 5 V DC
Power Dissipation (No Load)	< 0,8 Watt
Output (11-27 V)	Push-Pull
- Maximum Current	30 mA
- Incremental Signal	A, A neg., B, B neg. Channel A leads channel B when rotating in a clockwise direction
- Marker Pulse (option)	Z, Z neg., 1 pulse per revolution
- Cut-Off Frequency	160 kHz
- Rise Time of Edge	< 500 ns
Output (5 V)	Line Driver
- Maximum Current	50 mA
- Incremental Signal	A, A neg., B; B neg. Channel A leads channel B when rotating in a clockwise direction
- Marker Pulse (option)	Z, Z neg., 1 pulse per revolution
- Cut-Off Frequency	> 300 kHz
- Rise Time of Edge	< 100 ns
Maximum Revolutions per Minute (RPM)	(Cut-Off Frequency [Hz] / PPR) x 60 min^{-1}
Number of Pulses Per Revolution	7, 10, 18, 20, 32, 40, 50, 60, 64, 100, 125, 128, 180, 200, 250, 300, 360, 360, 400, 440, 500, 512, 700, 900, 1000, 1024, 1250, 1500, 1885, 2000, 2048, 2500, 2600, 3600, 4000, 4096 further on request
Maximum Rotational Speed	12.000 min^{-1}
Maximum Load on Shaft	Own Mass
Lifetime on Bearings	min. 3,9 x 10^{10} revolutions at:
- Operational Speed	6.000 min^{-1}
- Operating Temperature	60°C
Maximum Angular Acceleration	≤ 10^4 rad/s^2
Momentum of Inertia	approx. 2,5 x 10^{-6} kg m^2
Startup Momentum at 20°C (68°F)	approx. 2 Ncm
Standard Connection	12 pin Contact-Bullet-Connector, radial
Further Types of Connections / Connector Types	Upon Request
Weight	approx. 0,3 kg

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Environmental conditions

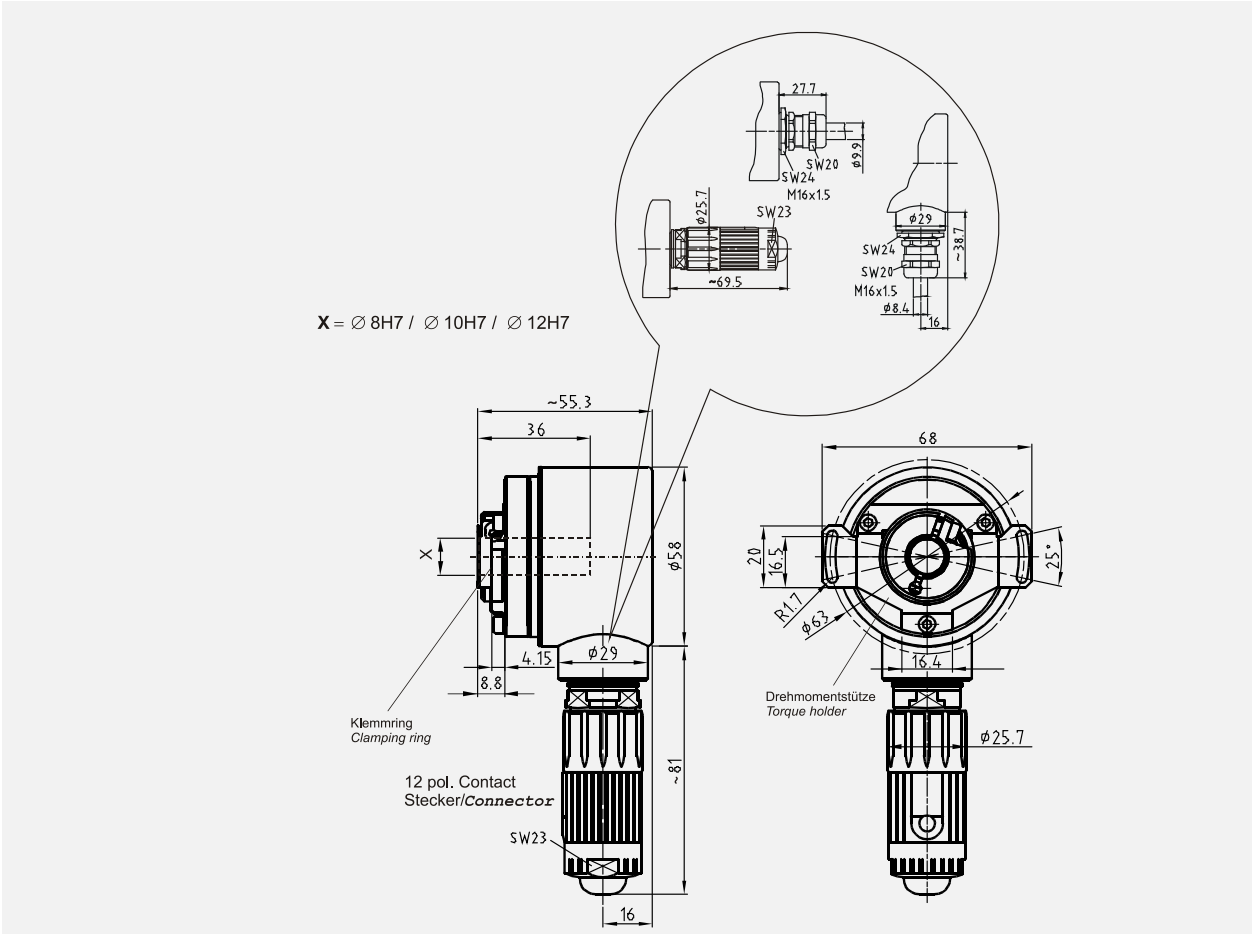
Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s², sine 59-2000 Hz
Shock, DIN EN 60068-2-27: 1995..... ≤ 1000 m/s², half-sine 11 ms
EMC
- Immunity to disturbance, DIN EN 61000-6-2: 2006
- Transient emissions, DIN EN 61000-6-3: 2007

Operating Temperature..... -20 to +85°C
Storage Temperature..... -30 to +80°C
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing
Protection class, DIN EN 60529: 1991 *)..... IP 67

*) 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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