Incremental-Encoder IH120

Ref.: K-IH120-INK-1
01.11.2016
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Advantages

- General applications
- Rugged construction

General Data

Nominal voltage - Specific value	24 VDC
- Limit values, min/max	11/27 VDC
Nominal current, typically - Specific value	100 mA
- Condition	unloaded
Supply - Optional	5 VDC ± 5 %
Signal form	Square
Optional signal	Sine, 160 kHz (-3dB), U/I
Incremental signals, square - Channels	K1+, K1-, K2+, K2-
- Phase position, electrically	90 °
Zero pulse, square - Channel (Channels)	K0+, K0-
- Number of revolutions	1x
Impulses, square wave	1024
	2500
	3600
	10000
	different on request

Subject to change.

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General Data continuation

Output driver, TTL - Output level	RS-422, 5 VDC
- Load current	<= 20 mA
- Output frequency	<= 300 kHz
Output driver, HTL - Output level	Push-Pull, supply voltage
- Load current	<= 20 mA
- Output frequency	<= 160 kHz
Phase angle	± 10 ° < 20 kHz
	± 30 ° < 100 kHz
Duty factor	± 10 ° < 20 kHz
	± 30 ° < 100 kHz
Type of parametrization	Factory setting
Maximum Speed, mechanically	<= 4000 1/min
Angular acceleration	<= 10E+4 rad/s²
Moment of inertia, typically	400E-6 kg m²
Start-up torque, 20 °C	10 Ncm
Concentricity tolerance	± 0.05 mm
Mass, typically	1.2 kg

Environmental conditions

Vibration - Specific value	<= 100 m/s²
- Sine	20…2000 Hz
Shock - Specific value	<= 1000 m/s²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature - Standard	0…+80 °C
Storage temperature, dry	-30…+80 °C
Relative humidity	98 %, non condensing

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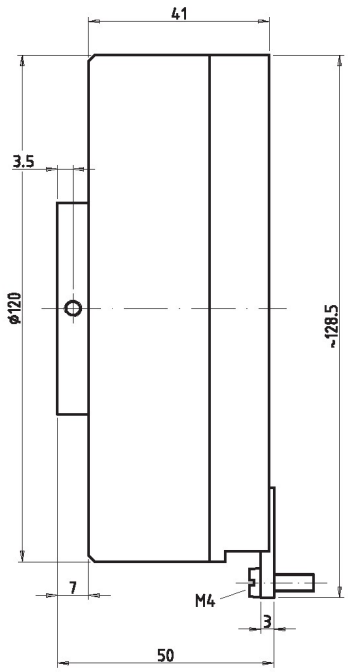
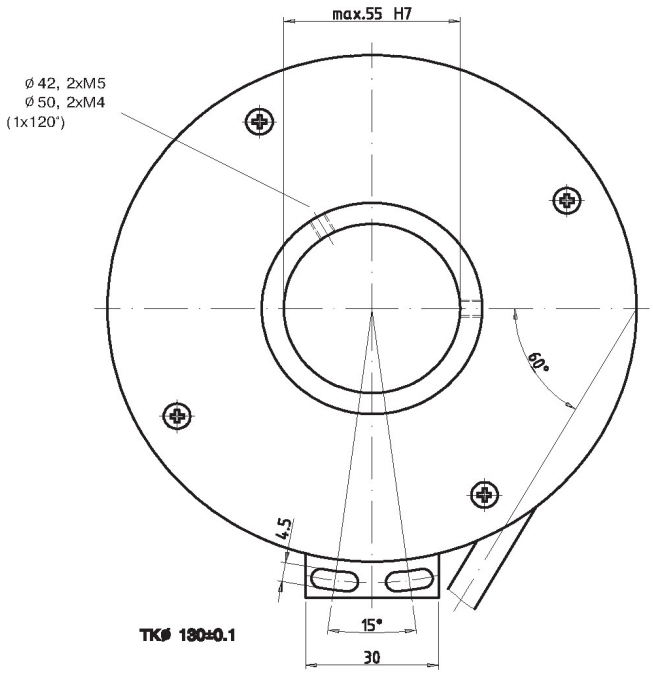
Dimensional drawing





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