

Incremental-Encoder IES24



Ref.: K-IES24-INK-1

25.04.2024

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Advantages

- Factory parametrization
- Imp./Rev. 1-step from 2...10
- Very small construction
- Wide range power supply

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	4.75/30 VDC
Nominal current, typically	
- Specific value	20 mA
- Condition	unloaded
Current consump. no load, 5 V	<= 70 mA
Signal form	Square
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	>= 2...<= 10000
Output driver, TTL	
- Output level	RS-422, 5 VDC
- Load current	<= 35 mA
- Load current	per Channel
- Output frequency	<= 900 / 700 / 250 kHz
- Output frequency	with 2 m / 5 m / 10 m cable
- Output frequency	with 20 mA load

Subject to change.

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General Data continuation

- Short-circuit proof	yes
Output driver, HTL	
- Short-circuit proof	yes
- Output level	Push-Pull, supply voltage
- Load current	≤ 35 mA
- Load current	per Channel
- Output frequency	$\leq 900 / 700 / 250$ kHz
- Output frequency	with 2 m / 5 m / 10 m cable
- Output frequency	with 20 mA load
- Minimum voltage of the supply	> 8 VDC
Parameter/Function, changeable	Number of pulses
	Output stage (TTL/HTL)
Type of parametrization	Factory setting
Maximum Speed, mechanically	≤ 10000 1/min
Shaft load, axial/radial	Own mass
Bearing life time	$\geq 3.9E+10$ revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
Shaft type	
- Shaft diameter [mm]	6
Angular acceleration	$\leq 10E+4$ rad/s ²
Moment of inertia, typically	1.81E-7 kg m ²
Start-up torque, 20 °C	< 0.1 Ncm
Circular runout	± 0.3 mm (static, radial)
Mass, typically	0.06 kg

Environmental conditions

Vibration	DIN EN 60068-2-6
Shock	DIN EN 60068-2-27
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-40...+90 °C
Storage temperature, dry	-40...+90 °C
Relative humidity	98 %, non condensing

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Environmental conditions continuation

Protection class

- Standard

IP65 shaft side

- Standard

IP67 housing side

Subject to change.

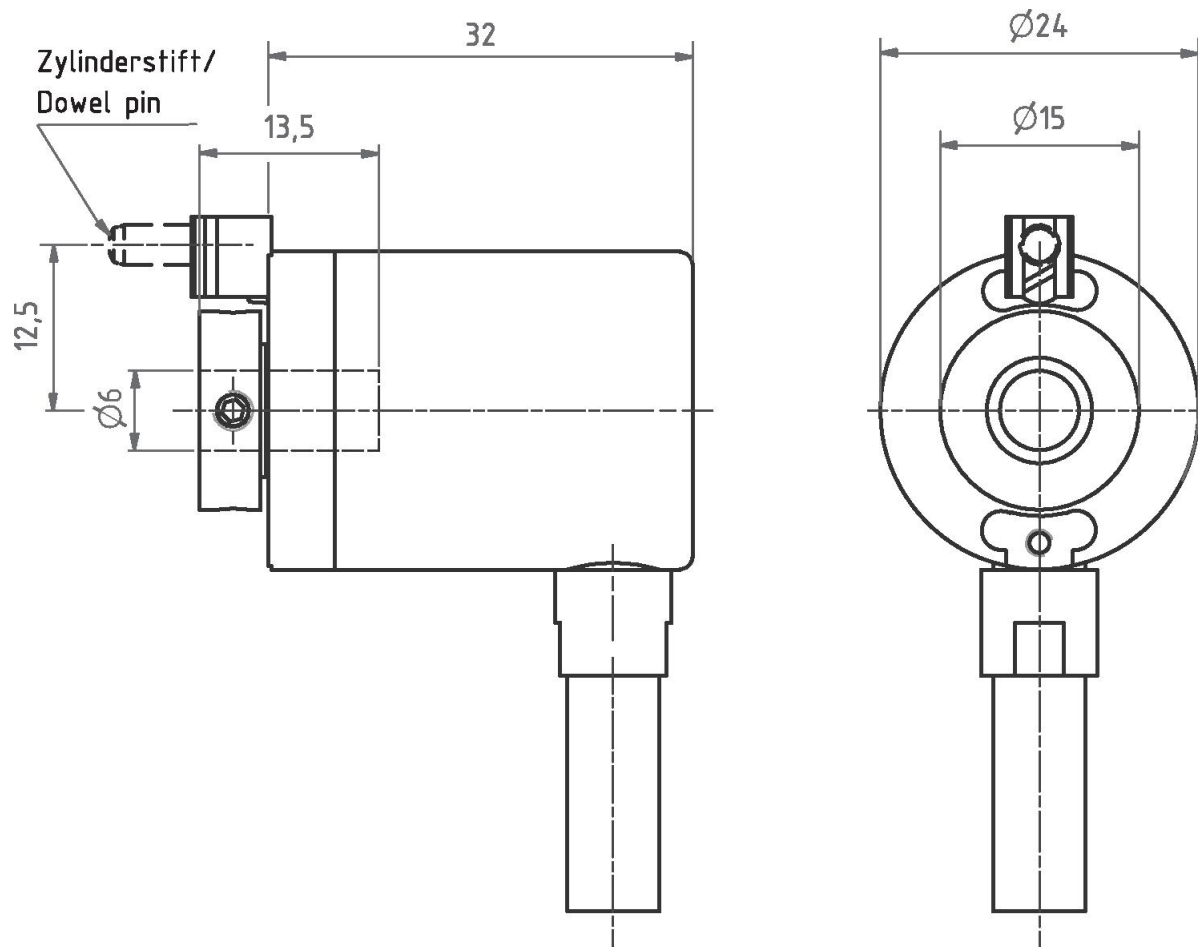
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Dimensional drawing



Fehlende Abmaße bzw. abweichendes Design, siehe Art.-Nr. bezogene Zeichnung /
Missing dimensions or different design, see drawing related to the order number

Subject to change.

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Suggested products

IES24*1024 HTL 6H7 SA KRF

209-00002

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