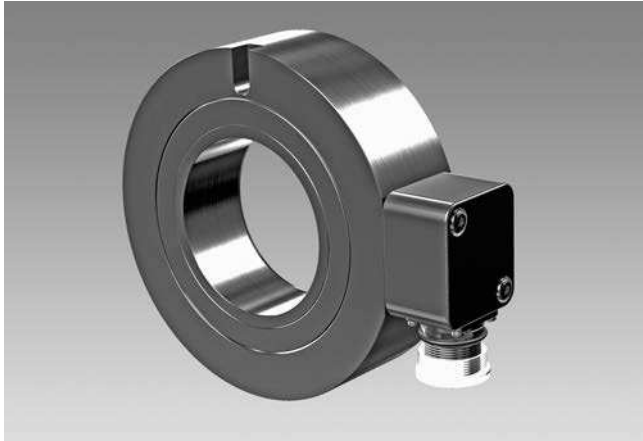


Incremental encoders

Through hollow shaft $\varnothing 70$ mm
250...2500 pulses per revolution

AG 14



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Features

- Robust encoder with through hollow shaft $\varnothing 70$ mm
- Optical sensing method
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC
- For elevator drives ideal
- High resistance to shock and vibrations
- Short overall length

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC ± 5 %
Consumption w/o load	≤ 100 mA
Pulses per revolution	250...2500
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz
Output signals	K1, K2, K0 + inverted
Output stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approvals	CE, UL approval / E256710

Technical data - mechanical design

Size (flange)	$\varnothing 139$ mm
Shaft type	$\varnothing 70$ mm (through hollow shaft)
Shaft loading	≤ 75 N axial ≤ 150 N radial
Protection DIN EN 60529	IP 54
Operating speed	≤ 3500 rpm (mechanical)
Operating torque typ.	10 Ncm
Rotor moment of inertia	7.1 kgcm ²
Material	Aluminium, bare
Operating temperature	$-20...+85$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 11 ms
Connection	Flange connector M23, 12-pin
Weight approx.	1.2 kg

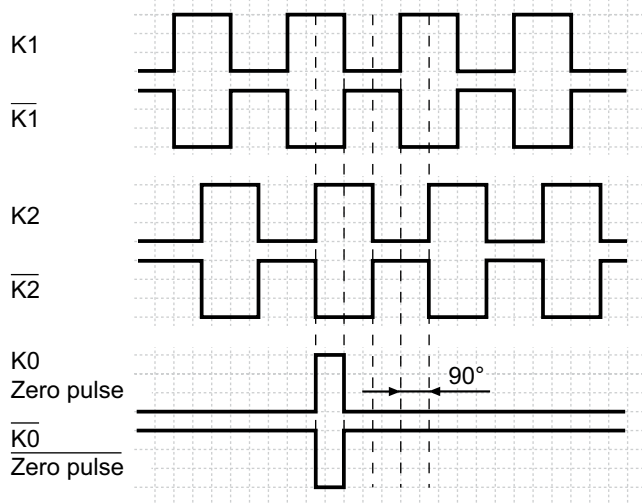
Incremental encoders

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Output signals

At positive rotating direction

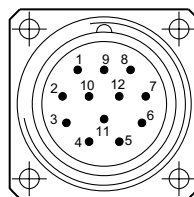


Terminal assignment

View A

Flange connector M23, 12 pin, male contacts, CCW

Pin	Assignment
1	$\overline{K2}$ (K2 inv.)
2	Do not use
3	K0 (Zero pulse)
4	$\overline{K0}$ (Zero pulse inv.)
5	K1
6	$\overline{K1}$ (K1 inv.)
7	Do not use
8	K2
9	Do not use
10	0 V
11	Do not use
12	+UB



Incremental encoders

Through hollow shaft $\varnothing 70$ mm
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Dimensions

