

Incremental encoders

EX approval ATEX II 2G Ex de IIC T6

Resolution 1...5000 pulses

EEx OG 9 - incremental



EEx OG 9

Features

- Encoder incremental / ATEX
- Optical sensing
- Ex-approved by ATEX II 2G Ex de IIC T6
- Shaft \varnothing 11 mm
- Robust light-metal housing
- Logic level TTL with regulator UB 9...26 VDC
- Logic level HTL with power line driver
- Big terminal box, pivotable through 180°

Technical data - electrical ratings

Voltage supply	5 VDC \pm 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	\leq 100 mA
Resolution (steps/turn)	1...5000
Phase shift	90°
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	\leq 120 kHz (pulse number <1200) \leq 250 kHz (pulse number >1200)
Output signals	K1, K2, K0 + inverted
Output circuit	TTL (RS422) HTL (power line driver)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4

Technical data - mechanical design

Housing	\varnothing 120 mm
Shaft	\varnothing 11 mm
Flange	EURO flange B10
Protection DIN EN 60529	IP 56
Operating speed	\leq 7000 rpm (mechanical)
Operating torque typ.	4 Ncm
Rotor moment of inertia	290 gcm ²
Admitted shaft load	\leq 200 N axial \leq 350 N radial
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-20...+55 °C
Resistance	DIN EN 60068-2-6 Vibration 10 g, 50-2000 Hz DIN EN 60068-2-27 Shock 100 g, 6 ms
Explosion protection	II2G Ex de IIC T6 (gas)
Weight approx.	3.5 kg
Connection	Terminal box

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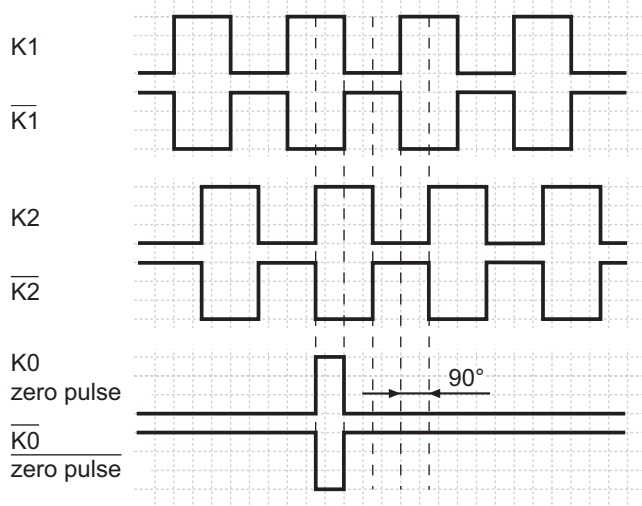
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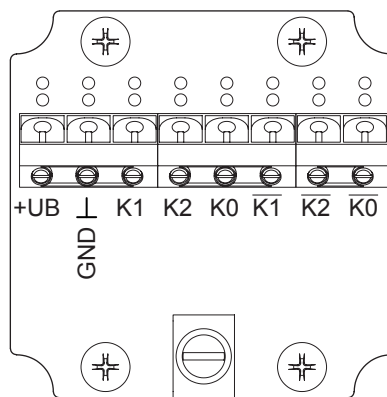
Output signals

at positive direction of rotation



Terminal assignment

View A - Connecting terminal



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Dimensions

