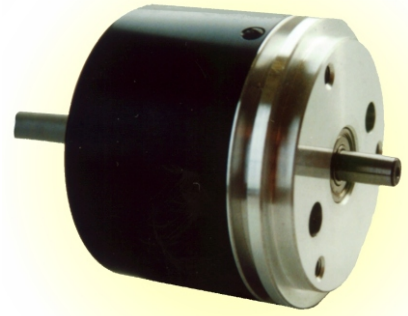


A58K ABSOLUTE ROTARY ENCODER



12-track Gray Code

The absolute rotary encoder A58K is used to establish an informational link between the key components of machines, industrial robots, comparators and DCC, NC or Digital Readout units. It gives information about the value and direction of the motion components. The encoder is used in automatic control, on-line gauging, in process monitoring systems, etc. The encoder keeps information about the position of the shaft even if the power is turned off.

The encoder consists of three parts: mechanical, optical and electronic.

The mechanical part supports the rotation of the code disc, fixes optical and electronic parts.

The optical part includes the light source and the code disc.

The electronic part is made on the base of specialized microchips.

The case of the encoder is fixed to an object via the tapped holes M4 in the flange. The shaft of the encoder is connected with an object shaft by virtue of a compensating coupling.

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ISO 9002

Mechanical Data

Maximum shaft speed	8000 rpm	Protection (IEC 529)	IP64
Moment of inertia of rotor	< 15 gcm ²	Operating temperature	-10...+70 °C
Starting torque at 20°C	0.2 Ncm	Storage temperature	-30...+80 °C
Maximum shaft load:		Maximum humidity	
- axial	10 N	(without condensation of moisture)	98 %
- radial	20 N	Permissible vibration (55-2000 Hz)	≤ 100 m/s ²
Maximum weight without cable	0.3 kg	Permissible shock (11ms)	≤ 1000 m/s ²

Electrical Data

Accuracy	±0.5 bit
Measuring steps	2 ¹² (4096)
Absolute measuring step	Approx. 5.28 arc min
Code	Absolute Gray
Power supply	+5 V±5% / < 200 mA
Light source	LED
Output format	12 bit
Output amplifier	Line driver
Output signals	TTL
Maximum operating frequency	100 kHz
Cable length	1, without connector

