

ARS60-GAR00360







Absolute encoders ARS60 SSI/Parallel

Model Name > ARS60-GAR00360

Part No. > 1031655





Illustration may differ

At a glance

- · Absolute singleturn encoder
- Resolution: up to 15 bits (32,768 increments)
- · Electrical interface: SSI with gray code type or gray capped
- Electrical interface: Parallel with gray, gray capped, binary, BCD code type
- · Zero-set function
- Mechanical interfaces: face mount flange, servo flange, blind and through hollow shaft
- · Enclosure rating: Up to IP66

Your benefits

- · Optical and magnetic variants for the widest range of requirements
- Reduced maintenance costs thanks to magnetic, wearless scanning in single and multiturn design
- High level of productivity due to optical encoders with a high level of precision and fast calculation of positions
- Robust design for maximum system availability, even in extreme environmental conditions
- · Absolutely compact specially suited in cases where installation space is tight
- · Flexible integration in all common networks



Performance

Max. number of steps per revolution: 360

Max. number of revolutions: 1

Resolution power: 360 x 1

Error limits: 0.035 $^{\circ}$ (binary number of steps) 0.046 $^{\circ}$ (non-binary number of steps)

Repeatability (Ta not constant): 0.005 °

Measuring step deviation: 0.005 °, 0.016 °

Measuring step: 360 ° /number of lines

Initialization time: 80 ms

1) Valid positional data can be read once this time has elapsed

Mec	hani	ical	data

Mechanical interface: Blind hollow shaft

Shaft diameter: 6 mm

8 mm 10 mm 12 mm 14 mm 15 mm 1/4 " 3/8 " 1)

Start up torque: 0.6 Ncm
Operating torque: 0.4 Ncm
Maximum operating speed: 3,000 /min

Bearing lifetime: 3.6 x 10⁹ revolutions

Max. angular acceleration: 500,000 rad/s²
Permissible movement axial static/dynamic: ± 0.5 mm, ± 0.2 mm
Permissible movement radial static/dynamic: ± 0.3 mm, ± 0.1 mm

Operation of zero-set: ≥ 100 ms²⁾

Electrical data

Operating voltage range: 10 V DC ... 32 V DC

Operating power consumption (no load): 90 mA

MTTFd: mean time to dangerous failure: 300 a (EN ISO 13849-1) 1)

safety component as defined in the Machinery Directive.

Calculation based on nominal load of components, average ambient

temperature 40°C, frequency of use 8760 h/a. All

electronic failures are considered hazardous. For more information, see document no. 8015532.

Interfaces

Electrical interface: Cable, 22-pin, axial, 1.5 m

Ambient data

EMC: (according to EN 61000-6-2 and EN 61000-6-3) 1)

Enclosure rating: IP 66 (according to IEC 60529)

Permissible relative humidity: 90 % (condensation of the optical scanning not permitted)

Working temperature range: $-20 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$ Storage temperature range: $-40 \,^{\circ}\text{C} \dots 100 \,^{\circ}\text{C}$

Resistance to shocks: 50 g (according to EN 60068-2-27)

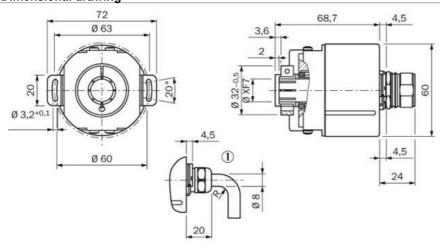
Resistance to vibration: 20 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)

1)

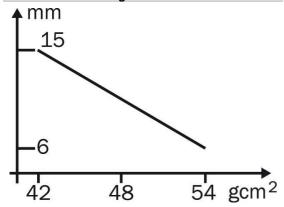
¹⁾ Collets for 6, 8, 10, 12, 14 mm and 1/4 ", 3/8 " and 1/2 " as accessories, separate order item. For 15 mm shaft diameter collet is not needed. 2) Only with shaft stationary (note initialisation time)

¹⁾ This product is a standard product and does not constitute a

Dimensional drawing



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