



Absolute encoders ARS60 SSI/Parallel

ARS60-F4R04096



Model Name > ARS60-F4R04096
Part No. > 1031604



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

- Freely programmable resolution (up to 15 bits)
- Simple zero adjustment directly by press of a button on the encoder or via signal line (cable version)
- Suitable for all mounting methods thanks to individual mechanical interfaces
- A basic device for flexible use thanks to simple interchangeable collets for blind hollow shaft and through hollow shaft
- Versions with cable and M23 connector outlet available in axial and radial designs



Performance

Max. number of steps per revolution:	4,096
Max. number of revolutions:	1
Resolution power:	4,096 x 1
Error limits:	0.035 ° (binary number of steps) 0.046 ° (non-binary number of steps)
Repeat accuracy:	0.005 °
Measuring step deviation:	0.005 °, 0.016 °
Measuring step:	360 ° /number of lines
Initialization time:	80 ms ¹⁾

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

Electrical data

Operating voltage range:	10 V DC ... 32 V DC
Operating power consumption (no load):	90 mA

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 °C ... 85 °C

Storage temperature range:

-40 °C ... 100 °C

Resistance to shocks:

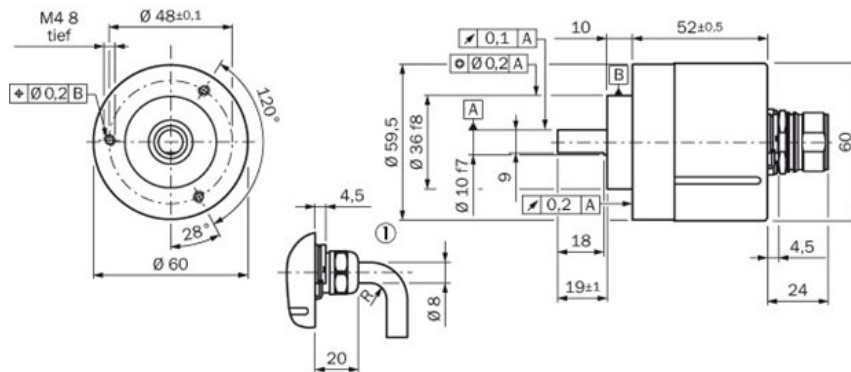
50 g (according to EN 60068-2-27)

Resistance to vibration:

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

¹⁾

Dimensional drawing



PSDI

Clock +																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	E1	0	14	13	12	11	10	9	8	

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