



Absolute encoders ARS60 SSI/Parallel

ARS60-J4R01440



Model Name > ARS60-J4R01440
Part No. > 1035819



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:	1,440
Max. number of revolutions:	1
Resolution power:	1,440 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

Cable, 22-pin, axial, 1.5 m

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)

Technical drawing of a 1000 Series 1/2" component. The drawing includes a top view, a side view, and a detail view of the mounting bracket. The top view shows a circular flange with a diameter of $\varnothing 60$ and a central hole of $\varnothing 48 \pm 0.1$. The flange has a thickness of 8 mm and a depth of 8 mm. The mounting bracket has a diameter of $\varnothing 10 \pm 0.2$ and a length of 10 mm. The side view shows the component with a total length of 52 ± 0.5 mm and a mounting bracket diameter of $\varnothing 10 \pm 0.2$. The detail view shows the mounting bracket with a diameter of $\varnothing 8$ and a length of 20 mm.

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	Er	Er	0	14	13	12	11	10	9	8

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