



## Absolute encoders ARS60 SSI/Parallel

ARS60-F4S00512



**Model Name** > [ARS60-F4S00512](#)  
**Part No.** > [1031567](#)



#### 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:	512
Max. number of revolutions:	1
Resolution power:	512 x 1
Error limits:	0.035 ° (binary number of steps) 0.046 ° (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 <sup>1)</sup>

<sup>1)</sup> 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, 3 m

### Ambient data

EMC:

According to EN 61000-6-2 and EN 61000-6-3 <sup>1)</sup>

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:

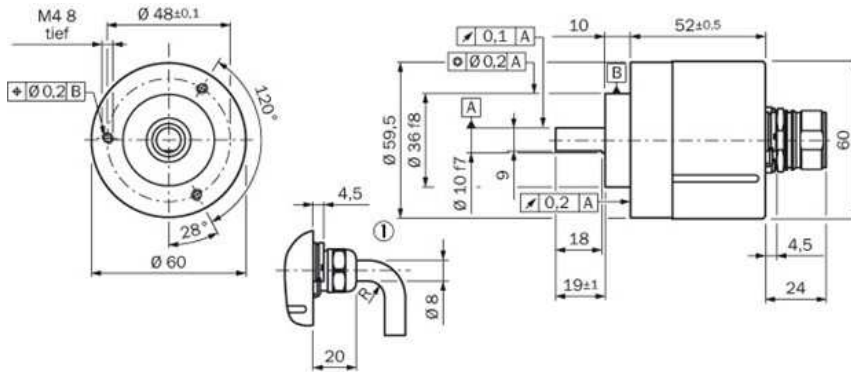
50 g (according to EN 60068-2-27)

Resistance to vibration:

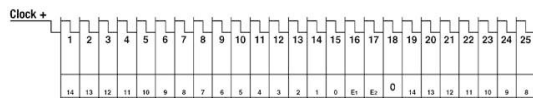
20 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)

1)

### Dimensional drawing



### PSDI



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