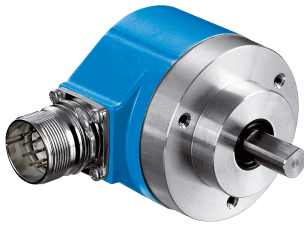


ARS60 SSI/Parallel

Reliable and established

ABSOLUTE ENCODERS

SICK
Sensor Intelligence.



Technical data overview

| | | | | | | | | | |
|---|---|---------------------------|--|--------------------------------|-------|--------------------|---------------------|----------------------|---------------------|
| Encoder design | Singleturn | | | | | | | | |
| Shaft type | Solid shaft, Servo flange Solid shaft, face mount flange Blind hollow shaft Through hollow shaft | | | | | | | | |
| Shaft diameter | <table> <tr> <td>Solid shaft, Servo flange</td><td>6 mm</td></tr> <tr> <td>Solid shaft, face mount flange</td><td>10 mm</td></tr> <tr> <td>Blind hollow shaft</td><td>15 mm ¹⁾</td></tr> <tr> <td>Through hollow shaft</td><td>15 mm ¹⁾</td></tr> </table> | Solid shaft, Servo flange | 6 mm | Solid shaft, face mount flange | 10 mm | Blind hollow shaft | 15 mm ¹⁾ | Through hollow shaft | 15 mm ¹⁾ |
| Solid shaft, Servo flange | 6 mm | | | | | | | | |
| Solid shaft, face mount flange | 10 mm | | | | | | | | |
| Blind hollow shaft | 15 mm ¹⁾ | | | | | | | | |
| Through hollow shaft | 15 mm ¹⁾ | | | | | | | | |
| Connection type | Male connector, M23, 12-pin, radial Male connector, M23, 12-pin, axial Cable, 11-wire, radial Cable, 11-wire, axial Male connector, M23, 21-pin, radial Male connector, M23, 21-pin, axial Cable, 22-wire, radial Cable, 22-wire, axial | | | | | | | | |
| Communication interface | SSI / parallel data world (depending on type) | | | | | | | | |
| Number of steps per revolution (max. resolution) | <table> <tr> <td>SSI, non programmable</td><td> 360 2,880 720 1,024 (10 bit) 1,892 2,048 (11 bit) 3,600 4,096 (12 bit) 5,000 7,200 8,129 8,192 (13 bit) 10,000 16,384 (14 bit) 18,000 21,600 32,767 32,768 (15 bit) 512 (9 bit) 256 8,192 72 256 (8 bit) 1,000 1,440 4,000 14,400 2,000 8,640 9,192 9,360 12,800 18,080 28,800 32,000 32,400 32,766 500 </td></tr> </table> | SSI, non programmable | 360 2,880 720 1,024 (10 bit) 1,892 2,048 (11 bit) 3,600 4,096 (12 bit) 5,000 7,200 8,129 8,192 (13 bit) 10,000 16,384 (14 bit) 18,000 21,600 32,767 32,768 (15 bit) 512 (9 bit) 256 8,192 72 256 (8 bit) 1,000 1,440 4,000 14,400 2,000 8,640 9,192 9,360 12,800 18,080 28,800 32,000 32,400 32,766 500 | | | | | | |
| SSI, non programmable | 360 2,880 720 1,024 (10 bit) 1,892 2,048 (11 bit) 3,600 4,096 (12 bit) 5,000 7,200 8,129 8,192 (13 bit) 10,000 16,384 (14 bit) 18,000 21,600 32,767 32,768 (15 bit) 512 (9 bit) 256 8,192 72 256 (8 bit) 1,000 1,440 4,000 14,400 2,000 8,640 9,192 9,360 12,800 18,080 28,800 32,000 32,400 32,766 500 | | | | | | | | |

¹⁾ Order collets for 6, 8, 10, and 12 mm and 1/4", 3/8", and 1/2" separately as accessories.

| | |
|---|-----------------|
| Parallel data world, non programmable | 6,000 |
| | 7,400 |
| | 200 |
| | 4,320 |
| | 9 |
| | 360 |
| | 256 (8 bit) |
| | 1,024 (10 bit) |
| | 512 (9 bit) |
| | 2,000 |
| | 4,096 (12 bit) |
| | 500 |
| | 5,000 |
| | 720 |
| | 8,192 (13 bit) |
| | 32,768 (15 bit) |
| | 2,048 (11 bit) |
| | 3,600 |
| | 10,000 |
| | 32,767 |
| | 800 |
| | 2,880 |
| | 15 |
| | 16,384 (14 bit) |
| | 1,000 |
| | 7,200 |
| | 860 |
| | 2,500 |
| | 18,000 |
| | 64 (6 bit) |
| | 8 (3 bit) |
| | 12 |
| | 6,017 |
| | 18 |
| | 1,440 |
| | 48 |
| | 24 |
| | 120 |
| | 34 |
| | 128 (7 bit) |
| | 100 |
| | 180 |
| | 400 |
| | 454 |
| | 452 |
| | 8,100 |
| | 11,520 |
| | 1,360 |
| | 4,090 |
| | 7,920 |
| | 1,375 |
| | 2,534 |
| | 4,000 |
| | 14,400 |
| | 576 |
| | 3,621 |
| Max. resolution (number of steps per revolution x number of revolutions) | |

¹⁾ Order collets for 6, 8, 10, and 12 mm and 1/4", 3/8", and 1/2" separately as accessories.

Product description

The modular setup of its CoreTech technology enables the compact ARS60 absolute singleturn encoder to provide a customized solution for all applications. All common mechanical variants are available with any number of increments between 2 and 32,768 and are either equipped with an SSI or parallel output, making the ARS60 a universal solution for nearly any application requirements

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)
-
- Easy zero adjustment directly on the encoder by pressing a button or via sub cable (cable version)
-
- Suitable for all mounting methods thanks to the individual mechanical interfaces
-
- A versatile base model thanks to the easily exchangeable collets for the blind hollow shaft and through hollow shaft
-
- Versions with cable and M23 connector connection in axial and radial designs available

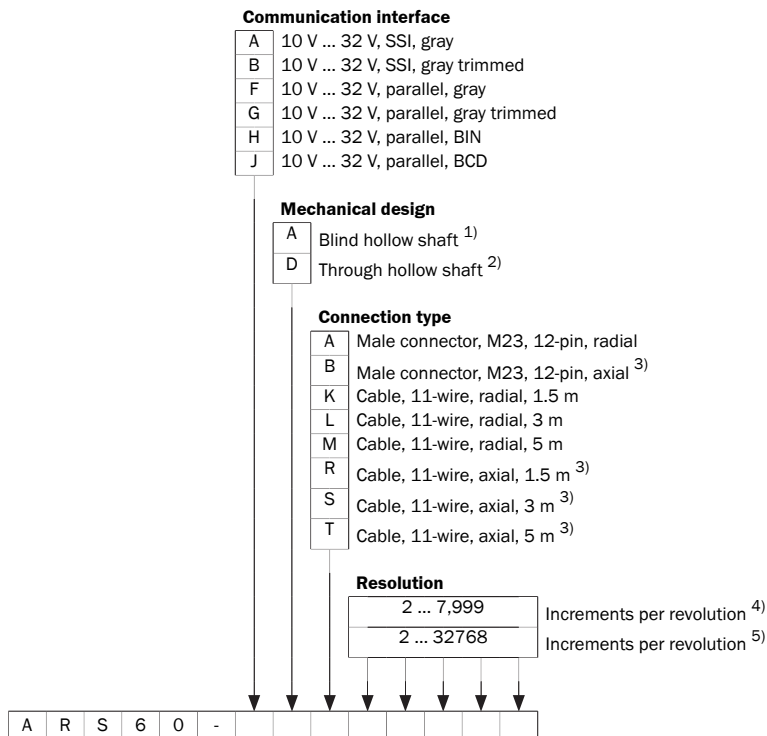
Fields of application

- Electronics and solar industries
- Textile machinery
- Packaging industry
- High-bay warehouses
- Woodworking machines
- Machine construction
- Automotive industry
- Material handling

Type code

Other models and accessories → www.sick.com/ARS60_SSI_Parallel

Hollow shaft



¹⁾ Order collets for 6, 8, 10, 12 and 14 mm as well as 1/4", 3/8" and 1/2" extra as accessories (see recommended accessories). No collets are necessary for 15 mm shaft diameter.

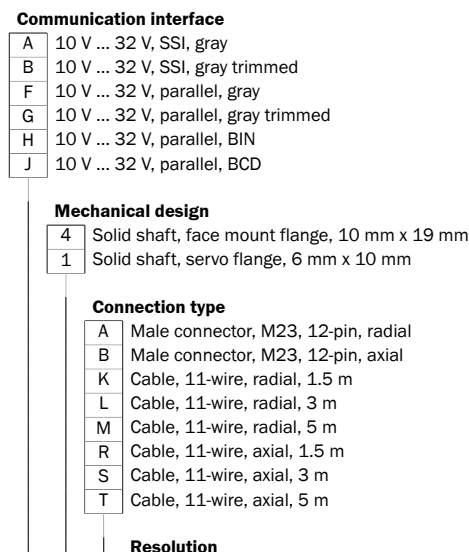
2) Order collets for 6, 8, 10 and 12 mm as well as 1/4", 3/8" and 1/2" extra as accessories (see recommended accessories). No collets are necessary for 15 mm shaft diameter.

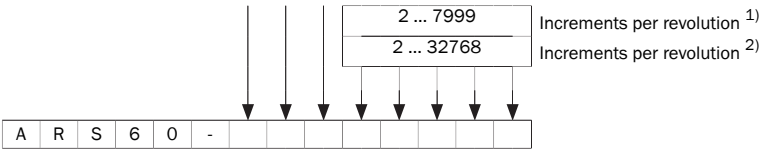
3) Only for blind hollow shaft mechanical version.

4) Communication interface J: Increments per revolution 2 ... 7,999 possible.

⁵⁾ Communication interface A, B, F, G and H: Increments per revolution 2 ... 32768 possible.

Solid shaft





¹⁾ Communication interface J: Increments per revolution 2 ... 7999 possible.

²⁾ Communication interface A, B, F, G and H: Increments per revolution 2 ... 32768 possible.

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com