




# Interface 3AR Sensor Instructions

[Home](#) » [Interface](#) » Interface 3AR Sensor Instructions 

## Contents

- [1 Interface 3AR Sensor](#)
- [2 Product Usage Instructions](#)
- [3 Mounting surface measuring platform](#)
- [4 Mounting surface stator](#)
- [5 Mounting surface requirements](#)
- [6 Documents / Resources](#)
  - [6.1 References](#)
- [7 Related Posts](#)



## Interface 3AR Sensor



## Product Specifications

- Product Name: 3AR Sensor
- Manufacturer: Interface
- Mounting Surfaces: Measuring Platform (moving side) and Stator
- Fastening: Cylinder head screws and cylindrical pins
- Screw Diameter: M20
- Tightening Torque:
  - Measuring Platform: 8.8 / 400Nm, 10.9 / 550Nm, 12.9 / 700Nm
  - Stator: 8.8 / 400Nm, 10.9 / 550Nm, 12.9 / 700Nm
- Mounting Surface Requirements:
  - High rigidity with no deformation under load
  - Flatness: 0.05 to 0.1mm
  - Surface Quality: Rz6.3

## Product Usage Instructions

### Measuring Platform Mounting:

The measuring setup must be attached to the mounting surface of the measuring platform of the 3AR sensor using the specified cylinder head screws and cylindrical pins.

#### Steps:

1. Ensure the mounting surface meets the specified requirements.
2. Use the correct screw diameter and tightening torque as per the table.
3. Fasten the setup with 8x cylinder head screws and position with 2x cylindrical pins.

### Stator Mounting:

The 3AR sensor must be attached to the screwing surface of the stator following the provided guidelines.

#### Steps:

1. Prepare the stator surface ensuring it meets the specified requirements.
2. Utilize the recommended screws, pin holes, and tightening torques as indicated in the manual.
3. Secure the sensor with 8x cylinder head screws and align using 2x cylindrical pins.

### General Notes:

- Always refer to the provided table for strength class and tightening torque information.
- Ensure proper screw depth in both the measuring platform and stator.
- Follow ISO standards for tolerances and surface finish.

## Frequently Asked Questions

### 1. Q: Can I use different screws for mounting the sensor?

A: It is recommended to use the specified cylinder head screws for mounting to ensure proper installation and performance.

**2. Q: What should I do if the mounting surface does not meet the specified requirements?**

A: It is crucial to have a rigid and flat mounting surface. If it does not meet the requirements, consult with a professional to rectify the surface before installation.

**3. Q: Is it necessary to use all 8 screws for fastening?**

A: Yes, it is important to use all 8 cylinder head screws for secure attachment of the sensor to the mounting surfaces.

**3AR Installation:**

Please note the following instructions for installing the 3AR products from Interface. For professional installation, the 3AR sensor must be attached to the special marked screw surfaces.

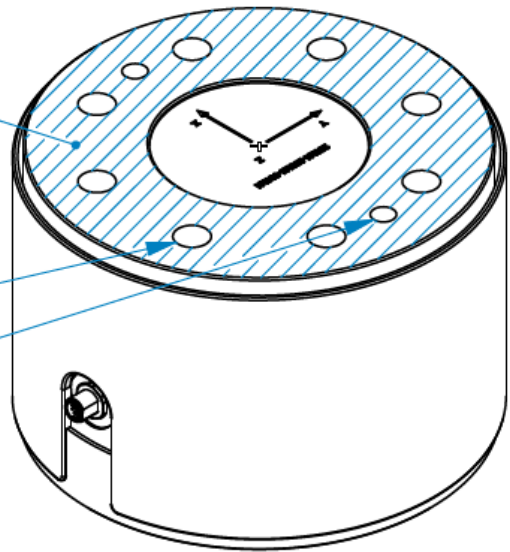
**Mounting surface measuring platform**

The measuring setup must be attached to the mounting surface of the measuring platform of the 3AR sensor. The threads, pin holes and tightening torques specified in the table must be used.

The screw depth in the measuring platform should be at least 1x the screw diameter.

8x fastening with cylinder head screw

2x positioning by means of cylindrical pins

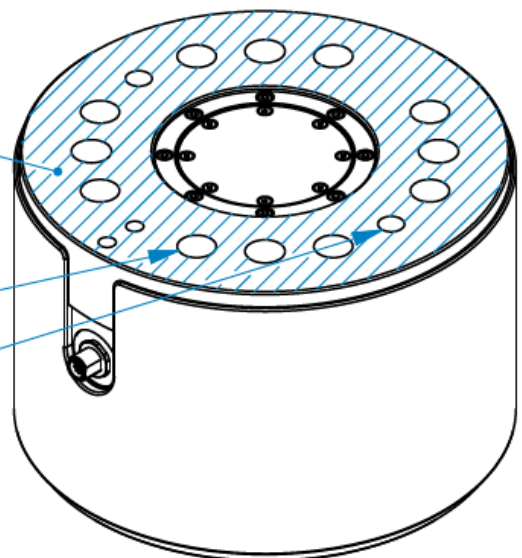


**Mounting surface stator**

The 3AR sensor must be attached to the screwing surface of the stator. The screws, pin holes and tightening torques specified in the table must be used. The screw-in depth in the stator should be at least 1x the screw diameter.

8x fastening with cylinder head screw

2x positioning by means of cylindrical pins

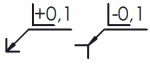

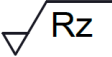


**Mounting surface requirements**

- high rigidity of the screwing surface, no deformation under load
- Flatness of the screwing surface 0.05 to 0.1mm

- Surface quality of the screwing surface Rz6.3

Number	Designation	Strength class/ Tightening torque (Nm) Measuring platform	Strength class/ Tightening torque (Nm) Stator
8	Cylinder head screw DIN EN ISO 4762 M20	8.8 / 400Nm 10.9 / 550Nm	8.8 / 400Nm 10.9 / 550Nm
2	Cylinder pins DIN6325 Ø12m6	12.9 / 700Nm	12.9 / 700Nm

	Standard ISO 128 	General tolerances ISO 2768-	<b>Refer to protection notice ISO 16016</b>	
Thread countersinking DIN 76 under 90° to 120° until Thread outer diameter		Surface finish DIN EN ISO 1302 	<b>This 2D drawing is essential for production and assembly. Alternative file formats (e.g. Step and Dxf) are only for additional info.</b>	

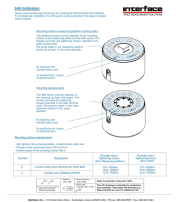
Interface, Inc. • 7418 East Helm Drive • Scottsdale, Arizona 85260 USA

**Phone:** 480.948.5555

**Fax:** 480.948.1924

[www.interfaceforce.com](http://www.interfaceforce.com)

## Documents / Resources

	<a href="#">Interface 3AR Sensor [pdf] Instructions</a> 3AR Sensor, 3AR, Sensor
---	--

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.