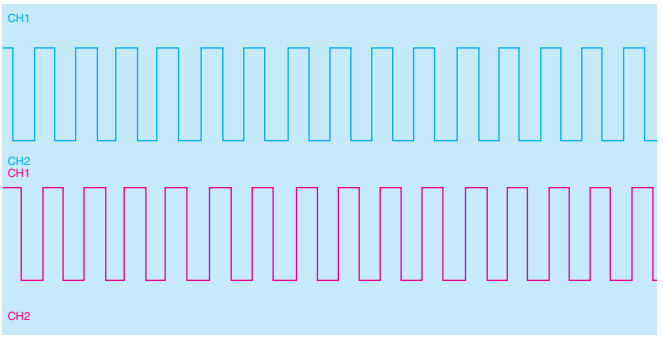
MOTION & CONTROL™
NSK

Sensor Bearings for Industrial Machinery

New!

The unitized structure of NSK's sensor bearing consists of a ball bearing with a magnetic encoder to detect rotating speed and rotating direction. The compact size of this bearing enhances further downscaling of associated equipment, and compared to conventional externally mounted sensors, simplifies the assembly process for manufacturers by eliminating the need to make sensor adjustments.



Example of output signals

■ Features

1. Operational under external magnetic flux
2. Twice as resistant to magnetic flux in comparison with conventional sensors
3. Rotating speed and direction simultaneously detectable
4. Contributes to equipment downscaling

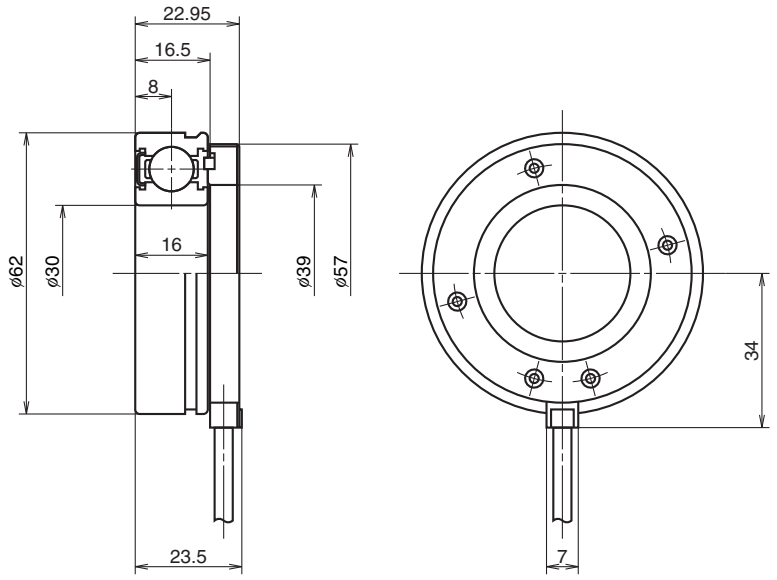
■ Applications

- Robots
- Forklifts
- Ventilators
- Elevators/Lifts (freight and passenger)

Specifications

Bearing:	deep groove ball bearing 6206
Dimensions:	bore diameter: 30 mm; outside diameter: 62 mm; width: 23.5 mm
Number of pulses:	64 pulses/rotation
Output pulse:	channels A and B (phase shift: 90° ± 45°)
Pitch accuracy:	± 5%
Duty ratio:	50 ± 15%
Input power:	DC 5 V to 24 V
Output current:	less than 20 mA
Operating temperatures:	−40 ˚C to 120 ˚C

Dimensions



Bearing Nomenclature

Example: **30** **SSB** **022-1**

- 30 — Bore diameter
- SSB — Sensor bearing for industrial machinery
- 022-1 — Specification code

For more information about NSK products, please contact: **www.nsk.com**

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