Brand of NTN Group

# Technical data

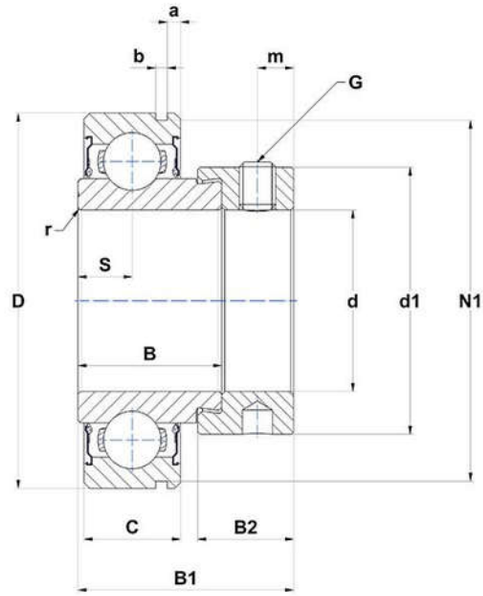
## CES210-31

Insert bearings



Cylindrical outer diameter, fixing by eccentric locking collar, single lip seal

## VISUAL (S)




## PRODUCT DEFINITION

| | |
|---|---|
| **Brand** | SNR |
| **a - Distance to grooves in OR** | 3,7 mm |
| **b - Groove width in OR** | 2,7 mm |
| **B - Width of Inner Ring** | 30,2 mm |
| **B1 - Overall width Inner Ring** | 43,7 mm |
| **B2 - Width of eccentric locking collar/nut** | 18,3 mm |
| **C - Width of Outer Ring** | 20 mm |
| **d - Shaft diameter** | 49,213 mm |

# CES210-31
Insert bearings

| PRODUCT DEFINITION | |
|---|---|
| **d1 - Outer dia of eccent. Lock. collar / nut of adapter sleeve** | 69,9 mm |
| **D - Outer diameter of OR** | 90 mm |
| **G - Set screw size** | 5/16-24UNF |
| **m - Distance to set screw** | 6,5 mm |
| **N1 - Groove dia in OR** | 86,79 mm |
| **r - Radius Inner Ring** | 1.5 |
| **S - Distance front side/bearing centre** | 10 mm |
| **f0 - Factor** | 14.4 |
| **SW - Wrench size** | 3,969 mm |

| PRODUCT PERFORMANCE | |
|---|---|
| **C - Dynamic load rating** | 35100000 mN |
| **C0 - Static load rating** | 23200000 mN |
| **Operating temperature min.** | 253,15 °K |
| **Operating temperature max.** | 373,15 °K |

| OTHER FEATURES | |
|---|---|
| **Mass** | 0,83 kg |
| **Recommended tightening torque for set screw** | 8 N-m |

| BEARING FREQUENCIES | |
|---|---|
| **BPFO - Over rolling frequency on outer ring (60 rpm)** | 4.09285714285714 Hz |
| **BPFI - Over rolling frequency on inner (60 rpm)** | 5.90714285714286 Hz |
| **BSF - Over rolling frequency on rolling element (60 rpm)** | 5.33038245219348 Hz |
| **BRF - Rotational frequency – rolling element (60 rpm)** | 2.66519122609674 Hz |
| **FTF - Rotational frequency - cage (60 rpm)** | 0.409285714285714 Hz |