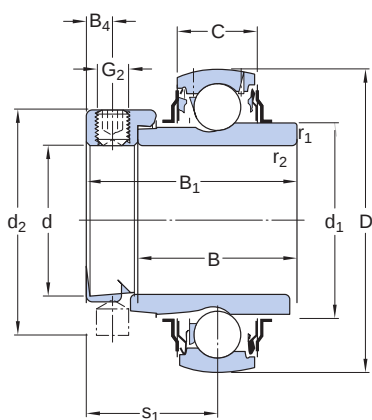


YEL 205-100-2F



Insert bearings are based on sealed deep groove ball bearings. This variant is intended for use in applications where the direction of rotation is constant. It has an inner ring extended on both sides, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels



Dimensions

d	25.4 mm	Bore diameter
D	52 mm	Outside diameter
B ₁	44.4 mm	Overall bearing width
B	34.9 mm	Width of inner ring
C	15 mm	Width of outer ring
d ₁	≈ 33.74 mm	Outside diameter of inner ring
d ₂	37.4 mm	Outside diameter of locking collar
B ₄	4.75 mm	Distance from side face to thread centre
r _{1,2}	min. 0.6 mm	Chamfer dimension of inner ring
s ₁	26.9 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed		7 000 r/min

		Limiting speed with shaft tolerance h6
Calculation factor	f_0	14

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm
Recommended tightening torque for set screw		4 N·m

Associated products

Rubber seating ring	RIS 205
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1, table 2
- Radial internal clearance: Standard inner ring, Other bearings

BEARING INTERFACES

- Shaft tolerances