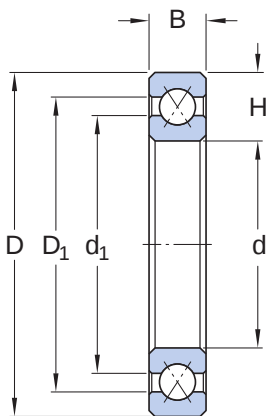


KDN.S08003XS0

Four-point contact ball bearings can accommodate radial, axial and moment loads simultaneously. One bearing series is based on a single cross section which remains constant as the bore diameter increases, leading to significant space and weight savings. The bearings are not recommended for applications having continuous rotation.



- Accommodate radial, axial and moment loads simultaneously
- Require considerably less axial space than two angular contact ball bearings
- Extremely thin cross section
- Lightweight
- Chemical and corrosion resistance
- Low friction
- High stiffness
- High running accuracy



Dimensions		
d	80 mm	Bore diameter
D	86 mm	Outside diameter
H	3 mm	Radial cross section
B	2.489 mm	Width
d ₁	≈ 82.2 mm	Shoulder diameter inner ring
D ₁	≈ 83.8 mm	Shoulder diameter outer ring/ inner diameter housing washer
	1.588 mm	Ball diameter
	0.25 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C _k	1 015 N
Basic static load rating, radial direction		1 606 N

C⁰

AGA BEARINGS

Maximum loading limit, axial direction	F_a	845 N
Maximum loading limit, moment	F_M	14 N·m

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances, radial clearance and recommended fits: Class 1
- Materials

AGA BEARINGS