BEARING SHIELD AND HOUSING

APPLICATION, REQUIREMENTS

The bearing shield and housing together with a ball bearing form a unit for the bearing of conveyor rollers on fixed axles. The unit is crimped into the metallic tube of the conveyor roller. The conveyor rollers run at a speed of up to 2m/s and are frequently accelerated and stopped. The bearing shield covers the ball bearing to protect it from rough dirt and mechanical damages. It is pressed into the inner ring of the ball bearing and represents the interface towards the axle. The bearing housing is snapped over the outer ring of the ball bearing and represents the interface towards the tube of the conveyor roller.

Conveyor rollers must be securely protected from electrostatic charges.

DESIGN, MATERIALS

faigle has developed a solution to secure electrical discharge directly via the plastic parts. No metallic discharge-elements like sliding brushes or copper-wires are required. Every color of the bearing shield is possible.

The surface resistance of this solution is in the range of electrical conductive materials \((10^3 \text{ – } 10^6 \Omega)\). Longterm experience of faigle shows that the conductivity of the plastic parts remain stable over the lifetime of the plastic parts.

The used materials are based on Polyamide 6.6, which is known for its outstanding mechanical resistance.
**BEARING SHIELD AND HOUSING**

**SPECIFICATIONS**

- **D**
  - approx 40 - 80 mm

- **B**
  - approx 15 - 50 mm
  - surface resistance accord to IEC 60093
  - $10^3 - 10^6 \Omega$

**CUSTOMER BENEFITS**

- secure conduction of electrical charges
- maintains the conductivity over many years
- free selection of colors for the bearing shield
- available as separate parts or completed as an assembly with a ball bearing

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