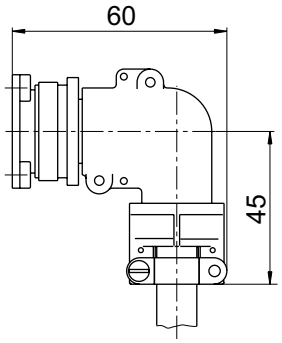
Web Tension Sensor EBZ

Scope of Supply
Web tension sensor in special aircraft aluminium design with 5 m cable (PVC) and connection variant S:
Plug connection, right-angled, MIL

Additional accessories
Installation Set
(consisting of bearing and circlips)

Connection

Variant S



Special Features

- Very cost effective solution
- Light weight design made of special aircraft aluminium
- Compact housing

Application

The force sensors of the EBZ series measure the radial forces and are suitable for web tension measurement. The large nominal range of this series make them suitable for many applications. This applies especially to the production and converting of web material, e. g. foils.

The measuring element of the EBZ sensor is a double beam optimized with Finite Element Analysis (FEA). This design results in a high accuracy of measurement. Mechanical stops provide overload protection.

A full strain gauge bridge is applied to the sensor elements. It produces measurement values proportional to the acting force when connected to a strain gauge amplifier, e. g. from the *HAEHNE* - Program.

Ordering example

EBZ40-100-S

Type
Outer diameter-of bearing
Nominal force in N
Variants / Options

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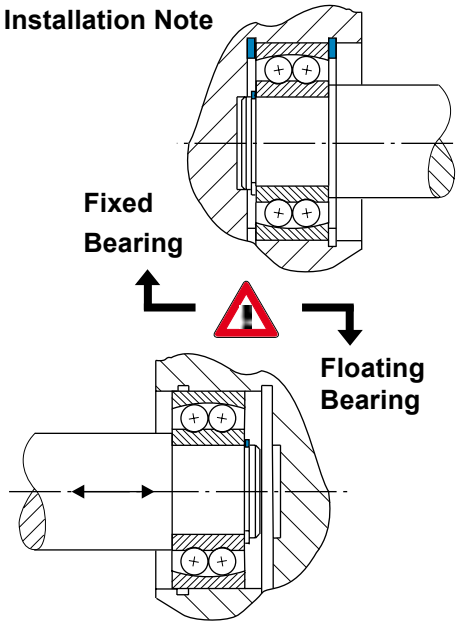
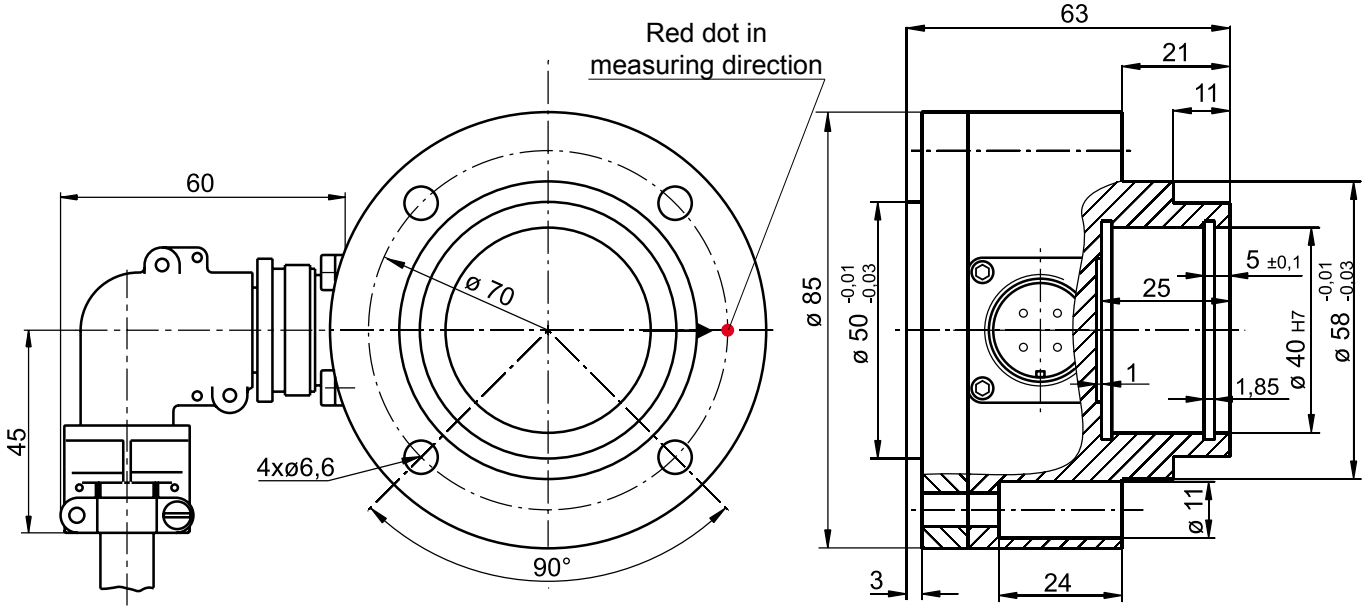
EBZ

HAEHNE

Technical Data	Values (%) based on nominal force
Nominal force (measuring range)	100; 250; 500; 1000 N
Max. operating force	160 %
Absolute max. force	500 %
Nominal rating	0,75 mV / V
Comined error	0,5 %
Nominal ambient temperature	+ 10 ... + 60° C (+50...+140° F)
Operational temperature range	- 10 ... + 70° C (+14... +158° F)
Nominal resistance of the strain gauge bridge	700 Ω
Bridge supply voltage	10 VDC
Sensor cable (standard)	PVC, grey, 4 x 0,34 mm²
Enclosure protection	IP 52



Recommended Bearing: 6203, 2203
(Not contained in the scope of supply)



Dimensions in mm (1 mm = 0.03937 inches)

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