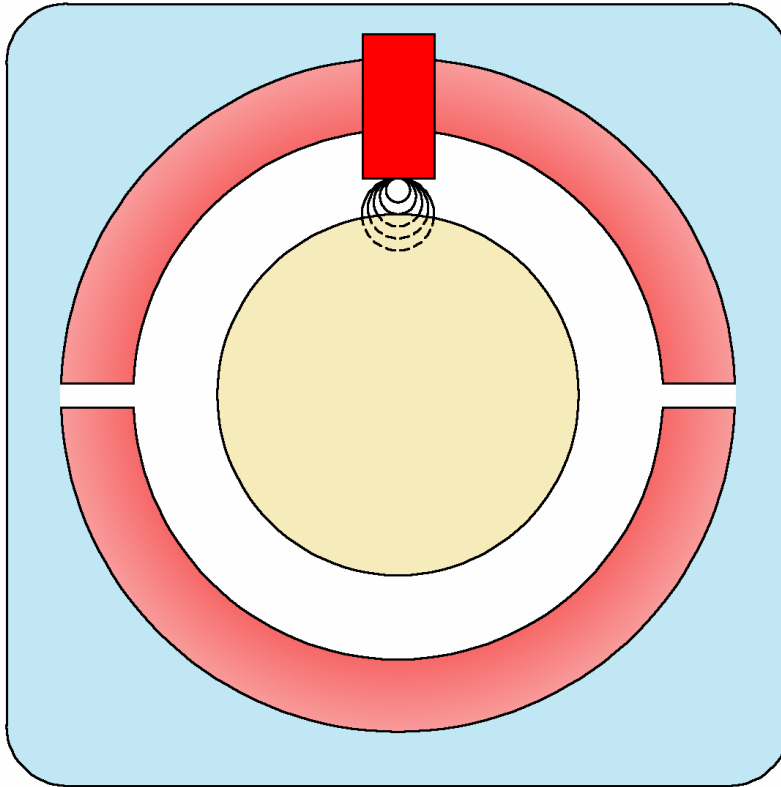


MMG 1070/. TS

Eddy current displacement sensor



- **For Measurements of:**
 - Speed
 - Shaft Displacement
 - Shaft Vibration
- Contactless measurement according to the eddy current principle.
- Measurement of static and dynamic processes possible.
- Integrated electronics for signal - processing in transducer housing.
- Operation in explosion hazardous areas possible.
- Transducer MMG 1070/. TS is available in four different dimensions.
- Suitable for industrial applications.
- Design meets common international standards, e.g. API 670, DIN 45670, VDI 2059

Application:

The displacement transducer **MMG 1070/. TS** is designed to measure mechanical machine parameters such as shaft vibrations, shaft displacements and speeds. The measurement is contactless according to the eddy current principle on electrically conducting material.

The necessary electronics for the signal processing is integrated in the transducer housing.

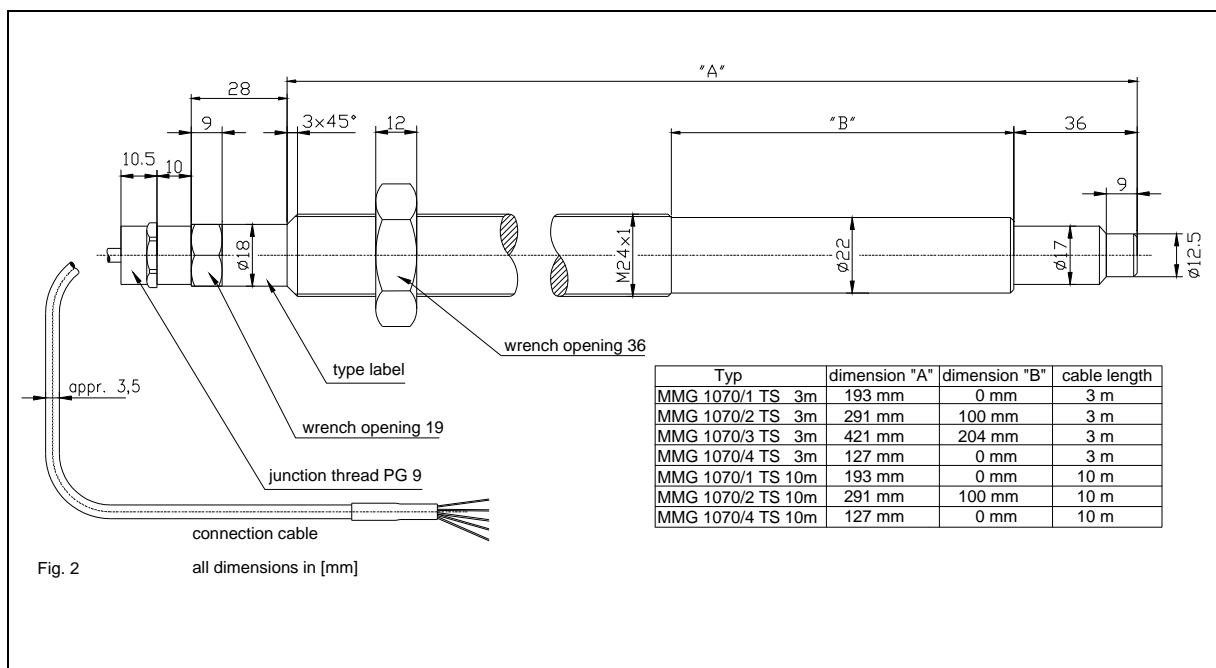
A complete measuring chain consists of a displacement transducer and a measuring amplifier, e.g. a monitor of the **MMS 6000** Machine Supervisory System.

The **epro** eddy current displacement transducer **MMG 1070/. TS** is available in seven different versions, who differ in the overall length, the usable thread length and the cable length of the transducer.

Technical Data:

<p>Operating temperature range: 0...+ 100°C</p> <p>Operating frequency range: 0...15 kHz (-3dB)</p> <p>Displacement measuring range: 2,15 mm</p> <p>Residual gap: approx. 0,5 mm</p> <p>Sensitivity: 7,87 V/mm (200 mV/mil)</p> <p>Mean voltage: -10,00 V</p> <p>Voltage output limits: appr. -1,5...-21,5 V at $U_{supply}=-24 V$ (or -1,5...($U_{supply} +2,5 V$) e.g.: -1,5...-19,5 V at $U_{supply}=-22 V$)</p> <p>Power supply: -24 V nominal (-18....-32 V)</p>	<p>Power consumption: max. 15 mA, at nominal power and unloaded output typical: 8...12 mA</p> <p>Housing material: material No.1.4541 (X10CrNiTi 1810)</p> <p>Standard cable: 4 - core (4 x 0,2 mm²) one supplementary core (0,5mm²) at the cable end for screen connection PTFE - isolation</p> <p>Terminal connections: red..... SIGNAL blue..... - 24 Volt black..... 0 Volt white..... 0 V, connected to black at the sensor green/yellow..... SCREEN</p>	<p>Cable protection: PG9-connection for cable protec- tion is provided, e.g. MPT 064</p> <p>Class of protection: IP 67</p> <p>Intrinsic safety protection: II 1G, EEx ia IIC T6, Ta<53°C II 1G, EEx ia IIC T4, Ta<60°C II 1G, EEx ia IIC T3, Ta<90°C PTB 03 ATEX 2151</p> <p>Weight: net / gros Type .../1 TS appr. 0,6 kg / 0,7 kg Type .../2 TS appr. 0,8 kg / 0,9 kg Type .../3 TS appr. 1,1 kg / 1,2 kg Type .../4 TS appr. 0,7 kg / 0,8 kg</p> <p>Scope of supply: - Core end tubing to be used for cable shortening - Nut size 36</p>
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Dimensions:



Order codes:

MMG 1070/1 TS	3m	Eddy current displacement sensor with 3 m cable.....	9200 – 00022
MMG 1070/2 TS	3m	Eddy current displacement sensor with 3 m cable.....	9200 – 00023
MMG 1070/3 TS	3m	Eddy current displacement sensor with 3 m cable.....	9200 – 00024
MMG 1070/4 TS	3m	Eddy current displacement sensor with 3 m cable.....	9200 – 00034
MMG 1070/1 TS	10 m	Eddy current displacement sensor with 10 m cable.....	9200 – 00036
MMG 1070/2 TS	10 m	Eddy current displacement sensor with 10 m cable.....	9200 – 00035
MMG 1070/4 TS	10 m	Eddy current displacement sensor with 10 m cable.....	9200 – 00025