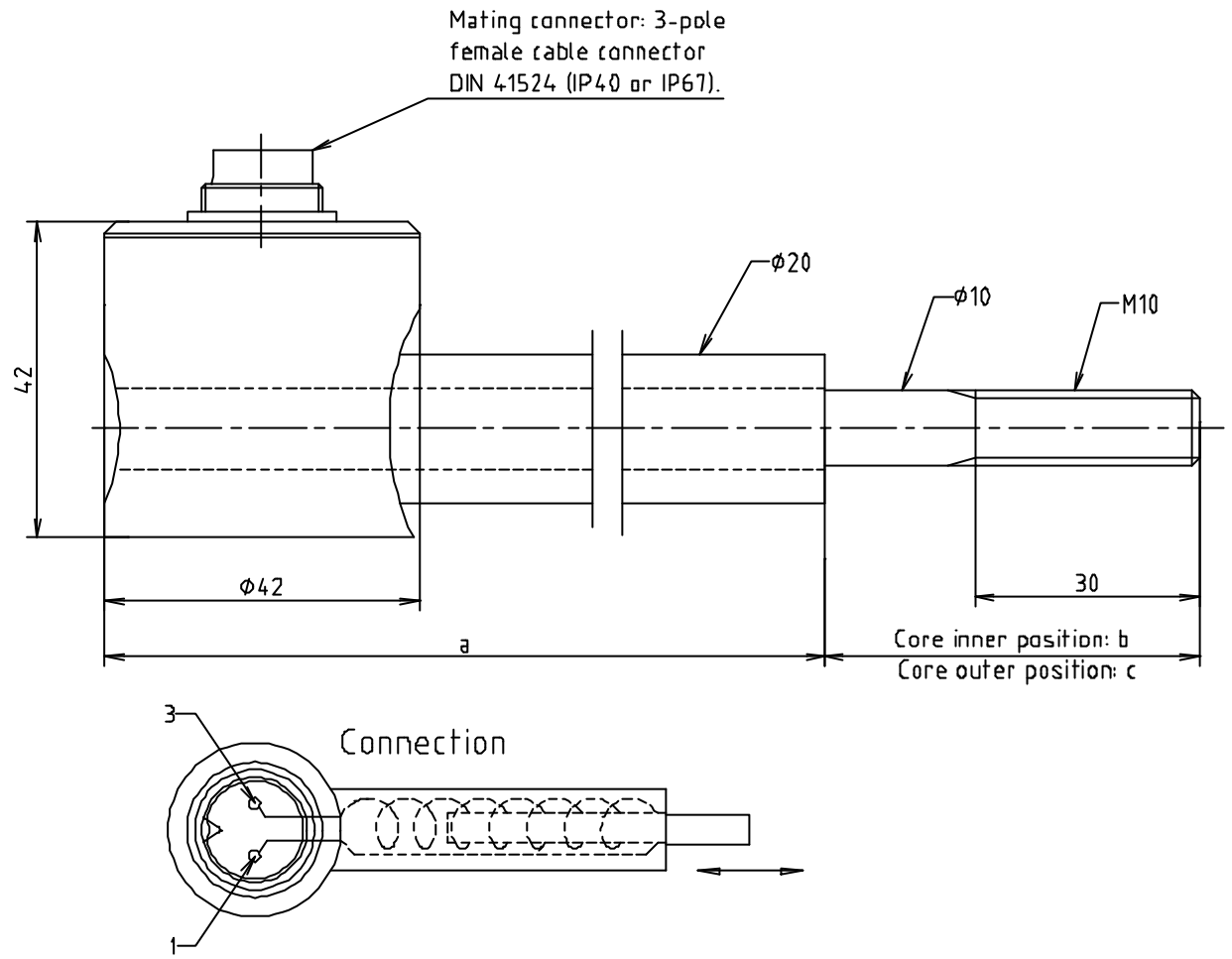
DISPLACEMENT TRANSDUCER
XLW 20/ C



XLW20/		300	500	700	800	1000	2000		
Range		300	500	700	800	1000	2000		
a (mm)		400	600	800	942	1290	2290		
b (mm)		50	50	50	50	50	50		
c (mm)		350	550	750	850	1050	2050		
Weight									
- total (g)		640	1100	1500	1700	2125	4250		
- core (g)		225	375	525	600	750	1500		
Resistance (Ohm)		-	-	-	88	-	-		

DESCRIPTION

The displacement transducer XLW 20 is based on a concept where the sensing element consist of only one coil. Special winding technique has made it possible to obtain measuring range up to more than 90% of body lenght. The transducer is assembled by laserwelding and all exposed surfaces are stainless steel. The core is guided in a stainless tube by means of low friction bushings, which gives excellent wear resistance (> 100 mio movements). The transducer can be fixed through the mounting block MBO20. The XLW 20 requires a special signal conditioner type TCA, which supplies the transducer with both an AC-current and DC-current. The AC-voltage across the transducer gives the position of the core and the DC-voltage gives the transducer temperature based on a fix temperature coefficient for coil resistance. The DC-voltage is used to temperature compensate the system.

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SPECIFICATIONS

Standard ranges	See table
Non-linearity (best fit straight line)	Max. 0,5 %, typical 0.3 %.
Temperature range	-40 °C to +85 °C
Temperature coefficient of gain and zero (incl. TCA)	< 0,03 %/°C
Transducer material	
-outer tube	Austenitic Stainless steel AISI 316
-bore liner	Stainless steel AISI 316 inside diametre ø11 mm
-core	Ferritic Stainless steel (Sandviken 1802) ø10 mm
Mechanical environment	
-vibration	According to IEC 68-2-6 (10-150 Hz, 0.35 mm/5 g)
-shock	According to IEC 68-2-27 (1000g half sine, 1ms)
Protection class	IP67
Connection	Binder type 723

ORDERING INFORMATION

XLW 20/ x C

Range in mm

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