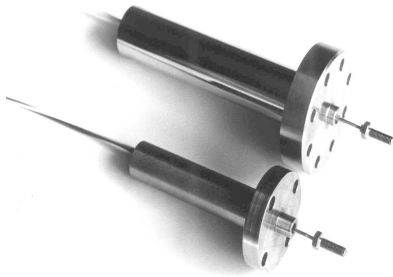


## Inductive Sensor DF



- Inductive sensor LVDT
- Pressure resistant 350bar
- Hole- or threaded flange
- External mounting in hydraulic applications



### Technical data

		DF 6	DF 12	DF 20	DF 25	DF 50	DF 80	DF 100	DF 130
Nominal stroke	mm	±3	±6	±10	±12,5	±25	±40	±50	±65
Mechanical stroke	mm	8	15	24	35	55	100	110	150
Dimension A	mm	22	30	35	45	55	75	80	100
Dimension B	mm	70	82	92	160	215	300	325	375
Sensor weight (approx.)	g	160	200	220	400	450	600	650	750
Core weight (approx.)	g	4	10	20	20	25	45	55	60
Supply voltage	V <sub>eff</sub>	bis 5							
Carrier frequency *)	kHz	5 kHz Option: 10 kHz							
Static resolution		continuous							
Linearity *)		±0,5% of measuring range Option: 0,25%							
Temperature coefficient of zero		±0,1% / 10K							
Temperature coefficient of span		±0,15% / 10K							
Operating temperature *)		-20°C ... +80°C Option: 120°C							
Protection (Din 40050)		IP 65							
Operating pressure (test pressure: +150 bar)		300 bar				350 bar			
Electrical connection **)		leads 250 mm				axial cable 2,5 m			

\*) select option when ordering

\*\*\*) other connections possible

### Model list

Order code:											
DF	nnn	NN				n,n %		n kHz		/Option1 /Option2 ...	
Series	Stroke	flange-/connection				Linearity (FSO)		Carrier freq.		Options	
DF	6 ... 130	Hole flange ø40 / leads	Hole flange ø50 / cable axial	Hole flange ø50 / cable radial	Threaded flange / leads	0,5%	0,25%	5 kHz	10 kHz	High operating temperature	Customised dimension A
		o.	K	Q	S					/120°C	/A xx
X	6 ... 20	X	--	--	X	X	X	X	X	O	O
X	25 ... 130	--	X	X	--	X	X	X	X	O	O

X = available standard model

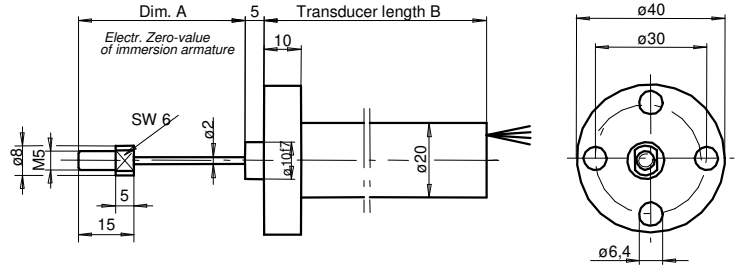
O = option

-- = not available

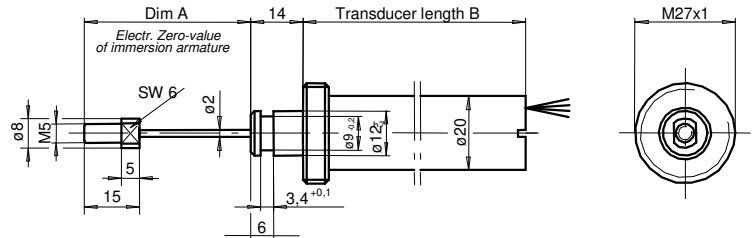
## Inductive Sensor DF

### Mechanical drawings / connections

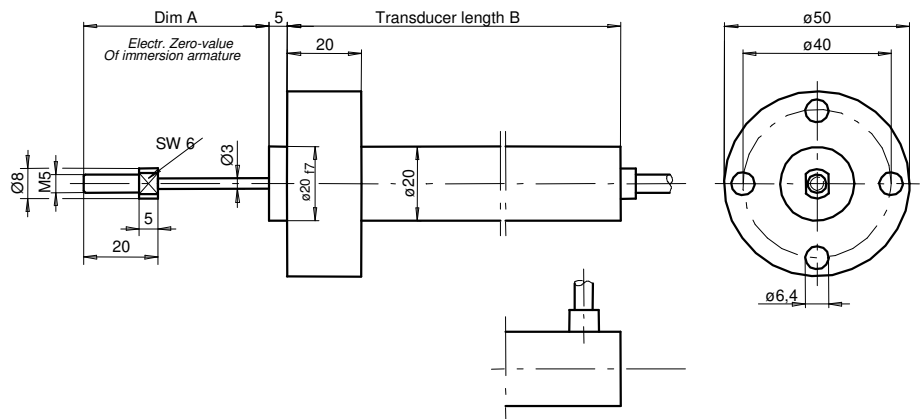
Hole flange with leads



Threaded flange with leads



Hole flange with cable axial (K)  
cable radial (Q)



### Electrical connection

	Leads	K / Q
Type of connection	PTFE leads 250 mm long	PTFE cable 2,5 m long
Pin configuration		
Excitation +	White	White
Excitation -	Blue	Blue
Measuring signal +	Red	Red
Measuring signal -	Black	Black