









Position sensors (2 ... 1000 mm range)

Type	DLH / DUH	DU	WLH / WLG	WV
Specifications				
Sensor principle	Inductive Full bridge (LVDT)	Inductive Full bridge (LVDT)	Inductive Half bridge	Inductive Half bridge
Stroke [mm]	±25 ... ±250 (50 ... 500)	±7,5 ... ±20 (15 ... 40) and ±300 ... ±500 (600 ... 1000)	±1 ... ±250 (2 ... 500)	±1 ... ±10 (2 ... 20)
Body diameter [mm]	DLH: 12 DUH: 16	14	12	14
Linearity [% FS]	0,5% 0,25% (0,1%)	0,5% 0,25% (0,1%)	0.5% 0.25% 0.1%	0.5% 0.25% 0.1%
For carrier frequency [kHz]	5 optional: 10	5 or 10 dep. on version	2 ... 10	2 ... 10
80 mV/V output version	Option	On request	● (WLG)	-
Connection				
Leads (axial)	●	●	●	●
Wire (radial)	●	●	●	Upon request
Wire (axial)	●	●	●	●
Connector (radial)	●	●	●	Upon request
Connector (axial)	●	Upon request	Upon request	-
Features				
Special features	Outstanding body-to-stroke ratio and linearity	Compact, large strokes	-	Economic sensor
More	-	Stroke models 50 ... 500 mm replaced by DLH / DUH	Short stroke versions, mounting flange versions	-

Probes (2 ... 200 mm range)

Type	DTC	DTL	WT / WTA	WTG / WTH
				
Specifications				
Sensor principle	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Inductive half bridge	Inductive half bridge
Stroke [mm]	±10 ... ±50 (20 ... 100)	±25 ... ±100 (50 ... 200)	±1 ... ±50 (2 ... 100)	±1 ... ±50 (2 ... 100)
Body diameter [mm]	25	12	8 / 12	8 / 12
Linearity [% FS]	0,4% 0,2%	0,5% 0,25%	0,5% 0,25% 0,1%	0,5% 0,25% 0,1%
For carrier frequency [kHz]	5 or 10 dep. on version	5 optional: 10	2 ... 10	2 ... 10
80 mV/V output version	●	Option	-	●
Connection				
Leads (axial)	-	●	(●)	-
Wire (radial)	-	●	●	●
Wire (axial)	● (ready for fitting)	●	●	●
Connector (radial)	-	●	●	●
Connector (axial)	●	●	●	●
Features				
Bellows	-	-	● (up to 10 mm)	● (up to 10 mm)
Stroke marks on core rod	Option: mm - scale	-	Option: zero and end positions	Option: zero and end positions
For pressurized applications [bar]	-	-	-	-
Special features	Rugged probe sensor	Ext. spring for optimal body-to-stroke ratio	8 mm shank (WTA)	8 mm shank (WTH)
More	Integral electronics version available	-	-	-

Pressure-resistant sensors (2 ... 1000 mm range)

Type	DF	DGx	DPx	WP
				
Specifications				
Sensor principle	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Complemented inductive quarter bridge
Stroke [mm]	±1 ... ±65 (2 ... 130)	±12,5 ... ±500 (25 ... 1000)	±12,5 ... ±500 (25 ... 1000)	60 ... 1000
Body diameter [mm]	20	DGB: 15 DGO: 20 DGU: 18	DPL: 12 DPN: 14 DPO: 20 DPU: 18	Sleeved core: 16 (up to 300) 18 (400 up)
Linearity [% FS]	0,5% 0,25%	0,5% 0,25%	0,5% (0,25%)	0,5%
For carrier frequency [kHz]	5 or 10 dep. on version	5 or 10 dep. on version	5 or 10 dep. on version	5
80 mV/V output version				-
Connection				
Leads (axial)	● (up to 20 mm)	-	-	-
Wire (radial)	Upon request	-	●	●
Wire (axial)	● (from 25 mm)	●	Upon request	Upon request
Connector (radial)	Upon request	-	●	●
Connector (axial)	Upon request	●	●	●
Features				
For pressurized applications [bar]	300 (up to 20 mm) 350 (25 mm up)	DGB: 300 DGO: 450 DGU: 250	DPL: 200 DPN: 160 DPO: 320 DPU: 200	320
Special features	Main body extending outside pressurized area, ideal for valve applications	Threaded body	-	Favorable body-to-stroke ratio
More	Available with hole-mounting or threaded flange (up to DF 18)	Version with integrated electronics feasible	Available - int. Electronics - IP 68/69 version	Available - probe version - int. Electronics - IP 68/69 version

DC/DC sensors with integral electronics (25 ... 1000 mm range)

Type	DAA / DAE	EDD	DxA / DxE / DxI	WA / WE / WI
Specifications				
Stroke [mm]	25 ... 1000	±7,5 ... ±500 (15 ... 1000)	±12,5 ... ±500 (25 ... 1000)	60 ... 1000
Body diameter [mm]	25	14	DLx: 12 DNx: 14 DOx: 20 DUx: 18	Sleeved core: 16 (bis 300) 18 (ab 400)
Linearity [% FS]	0,5% 0,25%	0,5%	0,5% (0,25%)	0,5%
Electronics (integrated)				
<i>Supply</i>	<i>Output</i>			
±15 VDC	±10 V / 0 ... 10 V	● (DAE, Option)	-	● (DxE, Option)
±15 VDC	4 ... 20 mA	● (DAA, Option)	-	● (DxA)
+24 VDC	±10 V / 0 ... 10 V	● (DAE)	● (2 ... 10 V)	● (DxE)
+24 VDC	4 ... 20 mA	● (DAA)	●	● (DxI, 2-wire)
+10...30 VDC	PWM 10 ... 90 %	-	●	-
Connection				
Leads (axial)	-	●	-	-
Wire (radial)	-	●	●	●
Wire (axial)	(upon request)	●	-	-
Connector (radial)	●	●	●	●
Connector (axial)	-	●	-	-
Features				
For pressurized applications [bar]	-	-	DLx: 200 DNx: 160 DOx: 320 DUx: 200	320
Special features	version DAx...G with roller bearing; ball eyes on both ends	-	-	Easy-to-mount sleeved core; Favorable body-to-stroke ratio
More	-	-	IP 68/69 version upon request	IP 68/69 version upon request