



Inductive half-bridge sensor LVIT

- Ø 12 mm standard case
- 80 mV/V nominal output
- Very low temperature coefficient
- particularly suitable for testing actuator applications / test machines

Technical data

		WLG 10	WLG 20	WLG 40	WLG 50	WLG 100	WLG 150	WLG 160	WLG 200	WLG 250	WLG 300	WLG 400	WLG 500
Nominal stroke	mm	±5	±10	±20	±25	±50	±75	±80	±100	±125	±150	±200	±250
Mechanical stroke ***)	mm	±10	±15	±30	±30	±60	±90	±90	±110	±135	±160	±210	±258
Dimension A	mm	40	40	45	50	100	130	130	150	180	200	250	300
Dimension B	mm	80	100	145	145	245	355	375	455	565	675	875	1065
Sensor weight (ca.)	g	40	60	85	85	120	150	160	200	230	280	350	440
Core weight (ca.)	g	6	8	9	9	12	15	16	20	25	30	40	50
Nominal output *)	mV/V	80	80	80	80	80	80	80	80	80	80	80	80
Sensitivity	mV/V/mm	16	8	4	3,2	1,6	1,07	1,0	0,8	0,64	0,53	0,4	0,32
Excitation voltage	V eff	< 5											
Carrier frequency	kHz	5 ... 10											
Linearity **)		±0,25% FSO Option: 0,1%											
Temperature coeff. of zero		±0,02% / 10K											
Temperature coeff. of span		±0,05% / 10K											
Operating temperature		-50°C ... +80°C											
Protection		IP 64											

*) Calibration accuracy: typically ±1 mV/V, max. ±3 mV/V

***) Specify option on order

***) Mechanical stroke: Values beyond nominal stroke non specified; values non-applicable at inner end position on version "K"

Model list

Order code: WLG nnn N n,n % /Option1 /Option2 ...

Series	Stroke	Connection					Linearity (FSO)			Options		
		Leads	Axial cable	Radial cable	Radial connector	Lemo connector Radial	0,5%	0,25%	0,1%	High operating temperature ¹⁾	PTFE cable ²⁾	Customised Dim. A
WLG	10 ... 500											
		o.	K	Q	R	LR				/120°C	/TF	/A xx
X	10 ... 500	X	X	X	X	X	X	X	X	O	O	O

X = available standard model O = option -- = not available

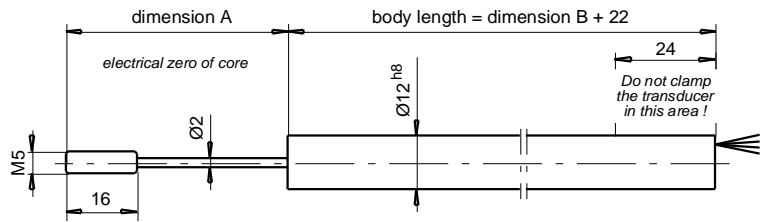
1) PTFE cable with versions K and Q 2) with versions K and Q only

Inductive Sensor WLG

Mechanical drawings

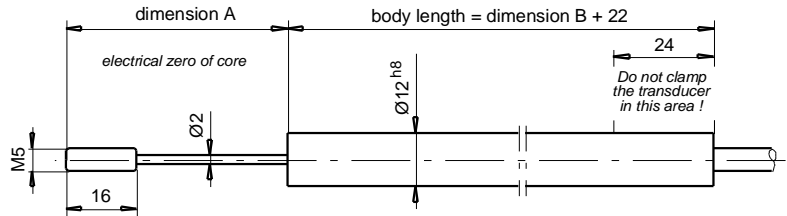
Leads ()

Core channel continuous



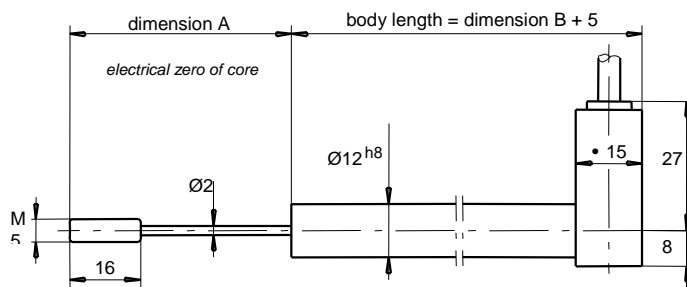
Axial cable (K)

Core channel not continuous



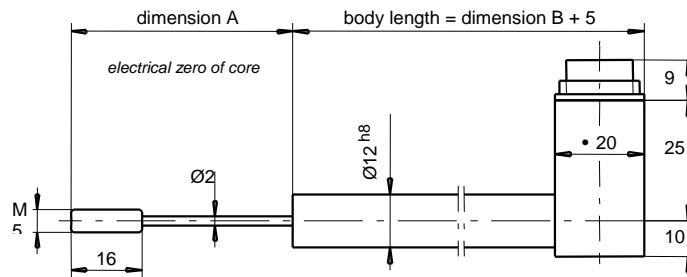
Radial cable (Q)

Core channel continuous



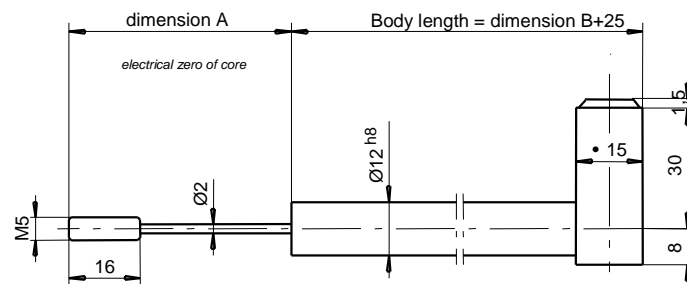
Radial connector (R)

Core channel continuous



Lemo connector radial (LR)

Core channel continuous



Connection

	Leads	K / Q	R	LR
Type of connection	PTFE leads 250 mm long	PE-cable 2,5 m long Option: PTFE cable	Amphenol C 091 connector (Mating plug supplied)	LEMO ERA.1S.303.CLL (Mating plug supplied)
Pin configuration	red yellowwhite blue 	red white blue 		
Power supply +	Blue	Blue	3	3
Power supply -	Red	Red	2	2
Measuring signal +	White+Yellow	White	1	1
Measuring signal -	-	-	-	-
Mating plug	-	-	Amphenol C 091	LEMO FFA.1S.303CLAC52