

Inductive Sensor WLH



Inductive half-bridge sensor LVIT

- 12mm standard housing
- economic design
- low temperature coefficient
- particularly suitable for general and testing actuator applications / test machines

Technical data

		WLH 1	WLH 2	WLH 5	WLH 10	WLH 20	WLH 40	WLH 50	WLH 100	WLH 150	WLH 200	WLH 250	WLH 300	WLH 400	WLH 500	
Nominal stroke	mm	±0,5	±1	±2,5	±5	±10	±20	±25	±50	±75	±100	±125	±150	±200	±250	
Mechanical stroke **)	mm	±2	±3	±6	±10	±15	±30	±30	±60	±90	±110	±135	±160	±210	±258	
Dimension A	mm	30	30	40	40	40	45	50	100	130	150	180	200	250	300	
Dimension B	mm	22	22	30	80	100	145	145	245	355	455	565	675	875	1065	
Sensor weight (ca.)	g	11	11	15	40	60	85	85	120	150	200	230	280	350	440	
Core weight (ca.)	g	2	2	3	6	8	9	9	12	15	20	25	30	40	50	
Nominal output	mV/V	30	80	110	90	130	180	240	290	310	330	310	320	320	350	
Sensitivity	mV/V/mm	60	80	44	18	13	9	9,6	5,8	4,1	3,3	2,5	2,1	1,6	1,4	
Excitation voltage	V eff	< 5														
Carrier frequency	kHz	5 ... 10														
Linearity *)		±0,5% FSO			±0,5% FSO											Option: 0,25% und 0,1%
Temperature coeff. of zero		±0,02% / 10K														
Temperature coeff. of span		±0,05% / 10K														
Operating temperature		-50°C ... +80°C, Option: up to 120°C														
Protection		IP 64														

*) 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:

WLH

nnn

N

n,n %

/Option1 /Option2 ...

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

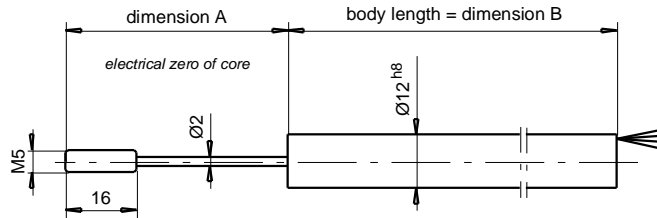
X = available standard model O = option -- = not available
 1) PTFE cable with versions K and Q 2) with versions K and Q only

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Mechanical drawings

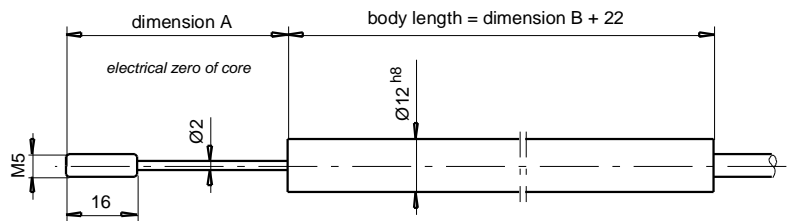
Leads ()

Core channel continuous



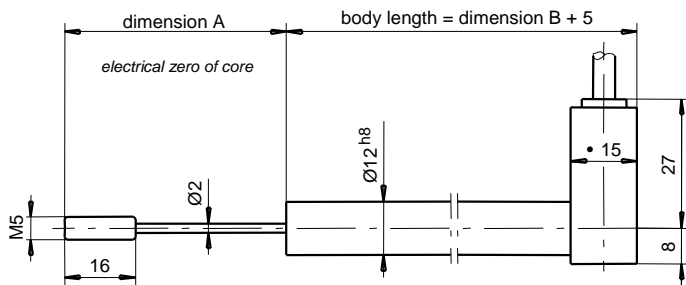
Axial cable (K)

Core channel not continuous



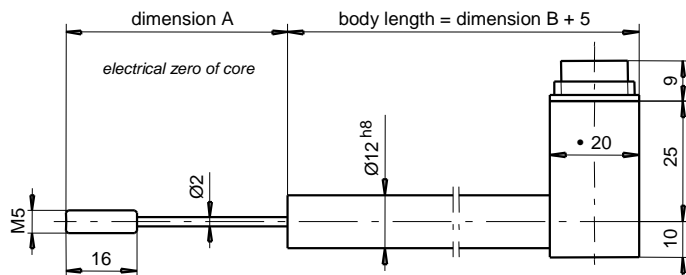
Radial cable (Q)

Core channel continuous



Radial connector (R)

Core channel continuous



Connection

	Leads	K / Q	R
Type of connection	PTFE leads 250 mm long	PE-cable 2,5 m long Option: PTFE cable	Amphenol C 091 connector (Mating plug supplied)
Pin configuration			
Power supply +	Blue	Blue	3
Power supply -	Red	Red	2
Measuring signal +	White+Yellow	White	1
Measuring signal -	-	-	-
Mating plug	-	-	Amphenol C 091