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Product Overview

Linear Transducers



Inductive linear transducers
with external electronics



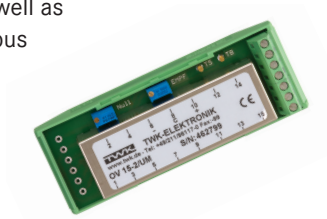
How far open is a valve flap? Does the tray have the right thickness? Where exactly does the laser scan the workpiece surface? Our inductive linear transducers provide answers to all these questions.

Whether in a very slim design without electronics or as calibrated instruments with processed analogue or digital output signals – all have that robustness and high reliability associated with TWK.



Product	IT 108 IT 118	IW 10 IW 101	IW 120	IWM 12
Electrical data				
Interface	Ext. electronics	Ext. electronics	Ext. electronics	Ext. electronics
Resolution	Infinite	Infinite	Infinite	Infinite
Sensor system	Inductive gauge type	Inductive, gauge type optional	Inductive, gauge type optional	Inductive, gauge type optional
Measurement range	up to 8 mm	up to 15 mm	up to 200 mm	up to 15 mm
Adjustable via	external electronics			
Linearity	0,5 %/0,25 %	0,5 %/0,25 %	0,5 %/0,25 %	0,5 %/0,25 %
Mechanical and environmental data				
Housing diameter	∅ 10 mm	∅ 10 mm	∅ 12 mm	∅ 12 mm
Protection class	IP66	IP66	IP66	IP66
Operating temperature	-20 ... +85 °C	-55 ... +120 °C	-55 ... +100 °C	-40 ... +85 °C

❖ For the inductive linear transducers without electronics, we supply external electronics for current or voltage outputs as well as for the PROFIBUS and CANopen bus interfaces.



Inductive linear transducers - calibrated



- ❖ Ball joints and fitting accessories are available for optimal adaptation of the linear transducers to the application. An installed spring enables the usage as gauge type.
- ❖ On request, we supply special designs tailored to your application. The devices of the IW 25P and IW 26P families with a teach-in feature can be electronically adjusted in the application.



Product	IW 260 IW 26P	IWE 250 IWE 260	IW 250 IW 25P	IWN 250 IWN 260	IWM 300	IW 150
Electrical data						
Interface	Current / Voltage	SSI	Current / Voltage	CANopen	Current / Voltage	Current / Voltage
Resolution	Infinite	12bit	Infinite	12bit	Infinite	Infinite
Sensor system	Inductive, gauge type optional	Inductive, gauge type optional	Inductive, gauge type optional	Inductive, gauge type optional	Inductive, gauge type optional	Inductive, gauge type optional
Measurement range	up to 360 mm	up to 360 mm	up to 200 mm	up to 360 mm	up to 15 mm	up to 15 mm
Adjustable via	Teach-In (IW 26P)	-	Teach-In (IW 25P)	-	-	-
Linearity	0,5 %/0,1 %	0,5 %/0,1 %	0,5 %/0,1 %	0,5 %/0,1 %	0,5 %/0,1 %	0,5 %/0,1 %
Supply voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Mechanical and environmental data						
Housing diameter	ø 25 mm	ø 25 mm	ø 25 mm	ø 25 mm	ø 30 mm	15 mm x 15 mm
Protection class	IP66	IP66	IP66	IP66	IP66	IP66
Operating temperature	-10 ... +80 °C	-10 ... +80 °C	-10 ... +80 °C	-10 ... +80 °C	-10 ... +80 °C	-10 ... +80 °C

- ❖ The superior robustness of our inductive linear transducers is achieved by special casting compound. The casting additionally seals the electronic components.





MAGNOSENS linear transducers apply the physical principle of magnetostriction. They are distinguished by ultra-precise measurements along with robustness and a compact design.

- With the exception of the MPL model, all listed models are available either as profile (MPx) or rod versions (MSx).
- A range of different position magnets is available for all models. For some models, multi position magnets can be analysed.



Product	MPL	MPE MSE	MPA MSA	MPC MSC	MPD/MSD/MPN MSN/MPK/MSK
Electrical data					
Interface	Current / Voltage	SSI	Current / Voltage	Current / Voltage	PROFIBUS CANopen EtherCAT
Resolution	Infinite	up to 1 µm	up to 1 µm	Infinite	1 µm/2 µm
Sensor system	Magnetostrictive	Magnetostrictive	Magnetostrictive	Magnetostrictive	Magnetostrictive
Measurement range	up to 1500 mm	up to 7600 mm	up to 7600 mm	up to 2500 mm	up to 7600 mm
Adjustable via	-	-	Hand-held unit	-	via bus system
Linearity	0,02 %	0,01 %	0,01 %	0,02 %	0,01 %
Supply voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Mechanical and environmental data					
Housing diameter	approx. 50 x 50 mm	Ø approx. 51 mm	Ø approx. 51 mm	Ø approx. 51 mm	Ø approx. 51 mm
Protection class	IP65	up to IP68	up to IP68	up to IP68	up to IP68
Operating temperature	-40 ... +75 °C	-40 ... +75 °C	-40 ... +75 °C	-40 ... +75 °C	-40 ... +75 °C



- Hand-held programming devices are available for adjusting the measuring ranges of the MPA/MSA models and for setting the PROFIBUS address on the MPD/MSD models.

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For further information and data
sheets with detailed product
descriptions, including examples
of applications, refer to:

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