Inductive Displacement Transducer

Series SM26



- Stroke up to 200 mm
- Housing diameter 12mm
- External electronic modules
- Gauge type with return spring available
- Protection class IP66
- Accuracy 0,5% or 0,25%

Construction and operating principle:

A nickel-iron core will be moved linear inside of a coil form. The displacement of the core leads to an inductance variation in both coils. An external electronic circuit converts the variation into a signal proportional to the displacement.

Standard measuring strokes in mm:

0.4	40		400	450	000
24	40	60	100	150	200

Standard dimensions and masses:

stroke mm	L1 mm	L2 mm	transducer	plunger
24	42	100	40g	20g
40	50	140	50g	25g
60	60	170	65g	25g
100	80	270	110g	35g
150	105	350	135g	45g
200	130	500	175g	56g

L1: Plunger in central position

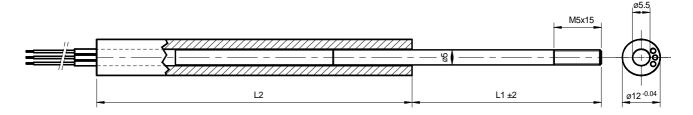
Standard version:

	with kynar leads AWG28
SM260S	with plug

Technical data:

(using our electronic modules)			
Accuracy	< 0,5% or 0,25%		
Temperature drift	< 0,01% / °C		
Temperature range with plug	-40°C to +85°C		
Temperature range with kynar leads	-40°C to +100°C		
Resistance to shock	250g SRS 20-2000Hz		
Resistance to vibration	20g rms (50g peak)		
Protection class	IP66		

Model SM260 (with 3x 300mm kynar leads AWG28)





SM260 Gauge:

Standard measuring strokes in mm:				
24	40	60	100	
Standard version:				
SM260ST	- v	vith plug		
SM260KT		vith kynar lea	ds AWG28	

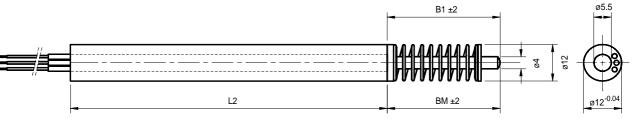
Dimensions and masses:

stroke mm	BM mm	B1 mm	Over- travel mm	FM N
24	45	63	8	~4
40	70	98	7	~4
60	75	110	2	~4
100	140	198	11	~4
BM: Plunger in central position B1: Plunger full out				full out

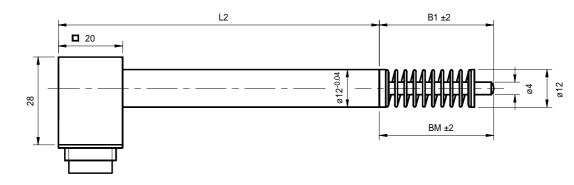
BM: Plunger in central position

FM: Springiness in central position

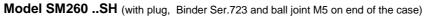
Model SM260 .. T (with 3x 300mm kynar leads AWG28)

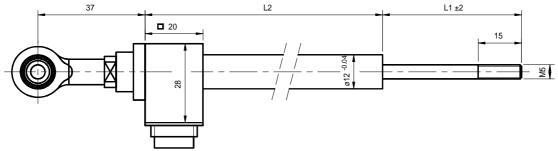


Model SM260 .. ST (with plug, Binder Ser.723)

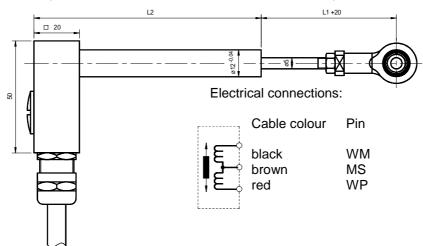


Other versions:





Model SM260 ..GK (IP67 with ball joint and Pg9-fastener with cable 3x 0.56mm²)





Sensivity:

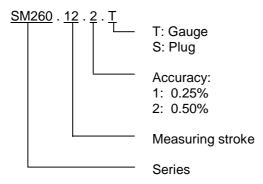
(using our electronic modules)

Measuring stroke	mV / mm (±10%)
24 mm	175
40 mm	110
60 mm	100
100 mm	55
150 mm	45
200 mm	30

Materials:

materialer		
External and internal	Stainless steel	
tube		
Plunger	Stainless steel	
Core	Stainless nickel iron alloy	
Connector case	Alu, black anodised	
Connector contacts	Gold plated	
Spring plate	Alu, black anodised	
Spring	Stainless steel	

Order code



Order codes for customer specified versions will be named at plant.

Example: SM260.60.2

Displacement transducer Series 260, 60mm measuring stroke, accuracy 0.5%, 300mm kynar wires

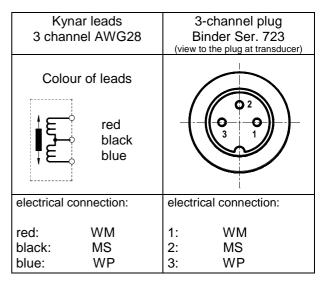
Excitation and signal processing

- SM10: Oscillator / Demodulator in metal case
- SM11: SM10 on Eurocard
- SM12: Oscillator / Demodulator without case 2 channels
- SM14: Eurocard up to 7 channels

Additional versions:

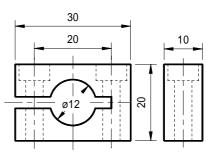
- Ball joint on the plunger or/and at the case
- Gauge with measuring wheel

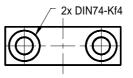
Electrical connections:



Mounting block SM906.260

(incl. 2 mounting screws M4x25 DIN912 VA)





Your Distributor



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