SCHREIBER MESSTECHNIK

Inductive Displacement Transducer with integrated 2-wire technology electronics

Series SM263 = 4..20mA 2 wire

- **Measuring range up to 200mm**
- **Housing diameter 12 mm**
- **Integrated electronics**
- **2-wire technology**
- **Accuracy ≤ ± 0,5 %**
- **Protection class IP66**

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 internal electronic circuit converts the variation into a signal proportional to the displace-ment 2 wire technology

Standard measuring range in mm

	24mm	40mm	60mm	100mm	150mm	200mm

Standard version

Type	Output	Supply voltage UB	Signal**	Mid
	-JB	+JB		
SM263 SM264	4 .. 20 mA (2-wire)	9 .. 32 V *	increasing decreasing	12 mA

* Minimum supply voltage depending on the load resistance RB: 9 V + RB [in Ohm] x 20 mA
** Increasing signal by moving the plunger in the direction towards the plug

Technical data

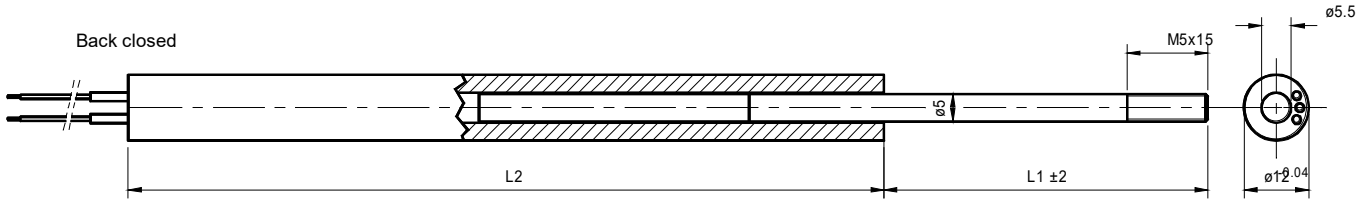
Accuracy	≤ ± 0,5 %
Temperature drift	≤ ± 0,01 % / °C
Signal rate	1 kHz
Temperature range	- 20 .. + 85 °C
Resistance to shock	250 g SRS 20 .. 2000 Hz
Resistance to vibration	20 g rms (50 g peak)
Protection class	IP66

SM263 Standard:

Range mm	L1 mm	L2 mm
	In mid position	
24	42	145
40	50	185
60	60	215
100	80	315
150	105	395
200	130	545

SM263

(with 300 mm Kynar-Litze)



Electrical connetion

Output	Standard 300mm Kynar wire
+JB	red
-JB	blue

.S: PIN 2 nicht belegt.

Material:

Housing	NiFe-alloy
Core	NiFe-alloy
Rod	Stainless steel

Order code

e.g. SM263.40.2

SM26	Series
SM26**3**	Current output 4 ..20mA (2-wire)
SM263.**40**	Measuring range 40mm
SM263.40.**2**	Accuracy ≤ ± 0,5 %