

Inductive displacement sensor

Precision indication gauge

SM220

SM222



- Clamping shank 8mm
- Stroke up to 8mm
- External electronic modules
- Protection class IP66
- Accuracy 0,5% or 0,25%

Structure and function:

Inside a coil a NiFe core is moved axially. The position of the core in each case causes corresponding inductivity distribution in the two coil halves, which is converted into a stroke-proportional signal by an external electronics system.

Standard measuring stroke:

4 mm	8 mm
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Version / Dimensions:

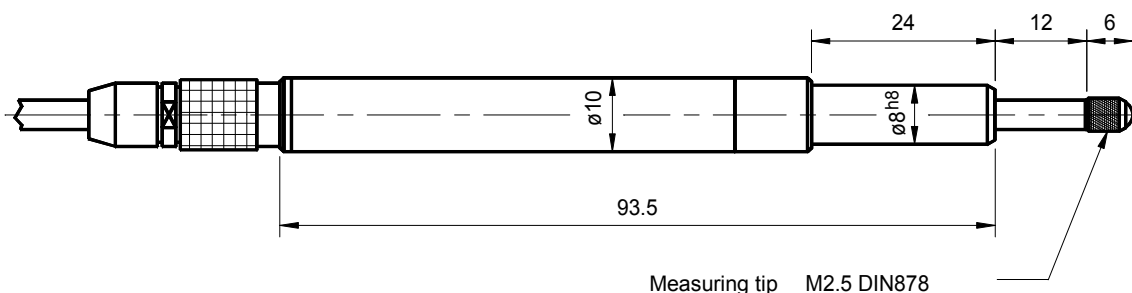
	SM220.4 SM222.4	SM220.8 SM222.8
Measuring stroke	4 mm	8 mm
Mech. total travel	12 mm	12 mm
Pre - travel	3.5 mm	1.5 mm
Over - travel	4.5 mm	2.5 mm
Spring force (in central position)	~1.7 N	~1.7 N
Mass	~40 g	~40 g

Technical data:

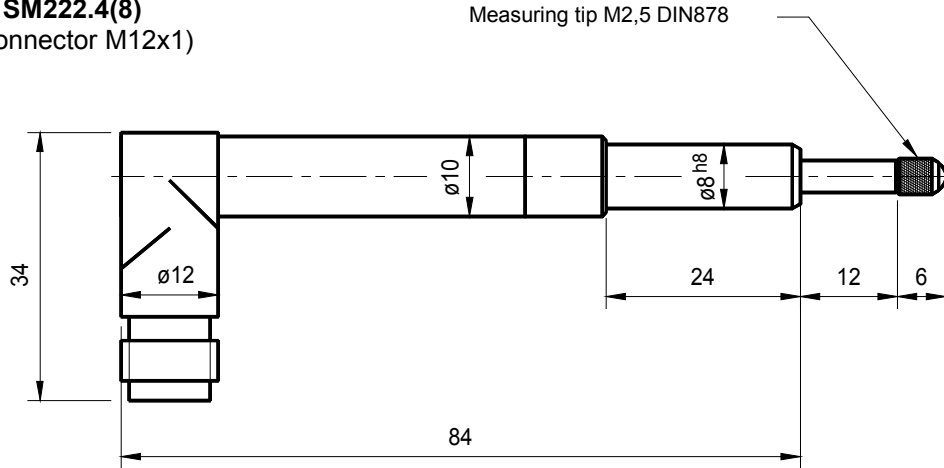
(using our electronic modules)

Accuracy	< 0,5% or 0,25%
Temperature drift	< 0,005% / °C
Temperature range with connector	-20°C to +85°C
Resistance to shock	250g SRS 20-2000Hz
Resistance to vibration	20g rms (50g peak)
Sensitivity SM220	440 mV / mm (±10%)
Sensitivity SM222	400 mV / mm (±10%)
Protection class	IP66

Precision indication gauge model SM220.4(8) (with connector Lemo 3-pol.)

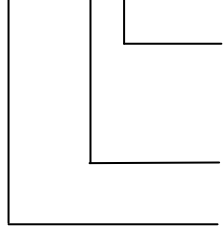


Precision indication gauge
model SM22.4(8)
(with connector M12x1)



Order code

SM220 . 8 . 2



- Accuracy:
1: 0.25%
2: 0.50%
- Measuring stroke:
8
- Series
SM220

Order codes for customer-specific versions will be assigned by the factory.

e.g.: SM220.8.2

Precision indication gauge of the 220 series,
8mm measuring stroke, accuracy 0.5%

Electrical connections:

Series SM222:

1: WP
2: n.c.
3: WM
4: MS

Series SM220:

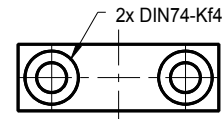
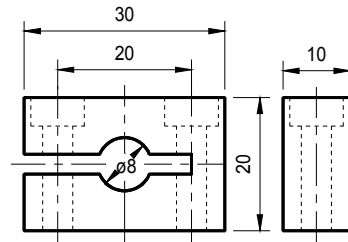
Cable colour	electronic
green	WP
white	MS
brown	WM

Power supply and signal processing:

- SM10: Oscillator / Demodulator in metal housing
- SM12: Oscillator / Demodulator with or without housing up to 2 channels

Mounting block SM906.200

(incl. 2 fastening screws M4x25 DIN912 VA)



Mounting block SM906.202

(incl. 2 fastening screws M4x25 DIN912 VA)

