

69/90 Hatairat Rd., Minburi , Minburi Bangkok (Thailand) 10510



MZ SERIES

Online tension sensors for small tensions

Special features:

- + Slim, compact housing, only 18 mm width
- + 2 different designs with different material path:
 MAZ series: gently material path above the 3 rollers
 MBZ series: material path warpping all 3 rollers
- + Integrated amplifier with various output signals

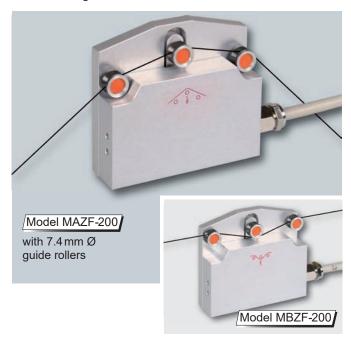
Standard features:

- Aluminium housing
- Supplied with a 2 m shield cable

Compact sensor for continuous tension measurement

Model MAZF, MBZF

3 Tension ranges from 0-100 cN to 0-500 cN





Space saving mounting of MZ series by using an optional rail

Stationary, electronic MZ Series

Tension sensor for yarns, fibers, textile ribbons, very fine wires, films, foils etc.

Model MAZD, MBZD

3 Tension ranges from 0-100 cN to 0-500 cN



Model MBZB

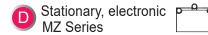
3 Tension ranges from 0-100 cN to 0-500 cN





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Model MAZF, MBZF, MAZD, MBZD

Available Models		Tension Ri	anges Meas	uring* Width* SCHMIDT Material Calibration Material
MODEL		cN cN	ww	SCh. Calibration
MAZF-100	MBZF-100	0-100	70	PA: 0.12 mm Ø
MAZF-200	MBZF-200	0-200	70	PA: 0.12 mm Ø
MAZF-500	MBZF-500	0-500	70	PA: 0.20 mm Ø
MAZD-100	MBZD-100	0-100	70	PA: 0.12 mm Ø
MAZD-200	MBZD-200	0-200	70	PA: 0.12 mm Ø
MAZD-500	MBZD-500	0-500	70	PA: 0.20 mm Ø
MAZD-1000	MBZD-1000	0-1000	70	PA: 0.30 mm Ø

Other units of measure available – g.

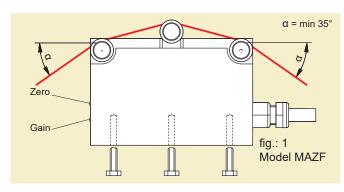
Model MBZB

Available Models	Tension Ranges wind ** Meagwind head Width ** Head Roller Widths on mm mm
MODEL	Tens Heat Rolls
MBZB-100	0-100 70 7, 10
MBZB-200	0-200 70 7, 10
MBZB-500	0-500 70 7, 10
MBZB-1000	0-1000 70 7,10

Other units of measure available - g.

Output Signal

/ DC
V DC
I mV № without



Guide Rollers Line Speed → see page E → Vmax...m/min Roller Material Model MAZF, MBZF V-grooved Standard 900 Hard-coated aluminium CodeK 2000 Hard-coated aluminium

Model MAZD, MBZD

V-grooved		
Standard	2000	Hard-coated aluminium
CodeK	3500	Hard-coated aluminium
Code H	5000	Plasma-coated aluminium

Model MBZB

Standard	1000 Hard-coated aluminium
	(Exception: 7 mm rollers are made of nickel-plated steel)

Other roller materials (nickel-plated steel or plastic), as well as special coatings (anti-adhesive or carbon fibres - NAV optimized) are available on request.



Compact sensor for continuous tension measurement

Specifications

Calibration:	SCHMIDT factory procedure	
Accuracy:	±2% FS* and ±1 Digit	
	Other calibration material:	
	±3% FS* or better	
Overload protection:	100 % FS*	
Measuring principle:	Strain gauge bridge	
Measuring roller deflection	: max. 0.5 mm	
Signal processing:	analog	
Output signal:	Standard: 0-1V DC (analog)	
	Option: 0-10 V DC, mV/V	
Output:	Shielded cable (2m) with bare leads	
Damping (fg):	Standard (analog): 30 Hz	
Temperature drift:	better ± 0.05 % FS*/°C	
Temperature range:	10-45°C	
Air humidity:	85% RH, max.	
Power supply:	+15 24 V DC, 21 mA (regulated);	
	Code A10: max. +5 V, max. 20 mA	
Housing material:	Aluminium	
Housing dimensions	70x55x17mm (LxWxH)	
Weight, net:	Approx. 100 g	
* FS = Full Scale		

FS = Full Scale

Outside dimensions of the housing

Suitable for 95 % of applications (see also chart on page 11) PA = Polyamide Monofilament

SCHMIDT calibration material textile ribbon or film, depending on tension range and roller width

^{**} Outside dimensions of the housing