



Features

- Synchronized force, displacement and time measurement >> combined with optional laser distance sensor
- Comprehensive test analysis>> software package allows display and evaluation of diagrams, comparison with limits and management of settings
- Application as force sensor in test stands >> with rugged aluminium die cast housing, optimized fixing points and autoreverse display
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Technical data

		Order No.:								
		FMI-B50A5	FMI-B50B1	FMI-B50B5	FMI-B50C1	FMI-B50C2	FMI-B50C5	FMI-B50K1	FMI-B50K2	FMI-B50K5
Capacity F(nom)*	N	5	10	50	100	250	500	1000	2500	5000
Resolution	N	0,001	0,002	0,01	0,02	0,05	0,1	0,2	0,5	1
Accuracy	% F(nom)	0,15								
Temperature coefficient*	% /K	0,02								
Reproducibility*	% F	0,03								
Repeatability*	% F	0,03								
Hysteresis*	% F	0,075								
Creeping (5min)*	% F	0,15								
Measuring principle		Bidirectional force sensor with strain gauges and high-speed ?-processor								
Nominal deflection*	mm	0,17	0,34	0,13	0,25	0,23	0,17	0,34	0,13	0,26
Measuring shaft		M6							M10	
Max. operating force*	% F(nom)	120								

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Breaking force*	% F(nom)	500	200
Display	Type	5-digit LCD 12mm Autoreverse	
	Refresh time (ms)	10 ... 1000	
Operation modes	Regular	N kg lb	
	Peak (real-time)	Display of peak value Peak value of pull- or push force (drag indicator function)	
	Limits + Statistik	2 separately adjustable limits Single value memory and continuous measured value memory	
Interface	USB	USB 2.0 data communication	
	Hirose	Limit / overload signals, digital I/O's (1 input / 3 outputs), trigger, supply (optional data cable required)	
	Sensor	Parallel, time-synchronous data acquisition for force and distance	
Power supply	Type	internal LiPo battery operation time 150h	
	Connection	USB (socket)	
Temperature (operation)*	°C	0 ... 40	
Protection code (EN 60529)	Cable not plugged	IP40	IP65
Housing	Material	Aluminium die cast	Hardened steel
	LxWxH (mm)	150 x 82x 29	
	Weight (kg)	0,480	1,150
	Mounting	2xM4, 2xM5, adjusting holes D5(H7)	

*) according VDI/VDE/DKD 2638 at 0,2 ... 1 x F(nom) **) according DIN 1319-1

Scope of Supply

Force gauge with force introduction parts (hook, flat head, groove head, pressure cone), 100-240VAC Universal mains charger with EU, UK and US plug adapter, USB cable, Quickstart manual, transport and protective case. Including FMI_Analyze software for real-time data acquisition Force/Distance/Time. Including calibration protocol according to VDI/VDE 2624 sheet 2.1 (DAkkS accredited calibration laboratory).

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