



### Features

- Data logging and USB interface » with memory function and limit value monitoring
- Peak measurement with 0,15 % accuracy » a high measurement rate allows to detect tensile and break forces precisely
- Application as force sensor in test stands » with rugged aluminium die cast housing, optimized fixing points and autoreverse display

### Technical data

#### Order No.:

		FMI-B30A5	FMI-B30B1	FMI-B30B5	FMI-B30C1	FMI-B30C2	FMI-B30C5	FMI-B30K1	FMI-B30K2	FMI-B30K5
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	%	0,15								
Temperature coefficient*	%/K	0,02								
Reproducibility*	% F(nom)	0,03								
Repeatability*	% F	0,03								
Hysteresis*	% F	0,075								
Creeping (5min)*	% F	0,1								
Measurement error**	% F(nom)	0,3								
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	

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Max. operating force*	% F(nom)	120	
Breaking force*	% F(nom)	500	200
Display	Type	5-digit LCD   12mm   Autoreverse	
	Refresh time (ms)	100 ... 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 + Statistics	2 separately adjustable limits   Single value memory and continuous measured value memory	
Interface	USB	USB 2.0 data communication and charging function	
	Hirose	Limit / overload signals, digital I/O's (1 input / 3 outputs), trigger, supply (optional data cable required)	
	Sensor	-	
Power supply	Type	internal LiPo battery   operation time 150h	
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 82 x 29	
	Weight (kg)	0,480	1,150
	Mounting	2xM4, 2xM5, adjusting holes D5(H7)	

### 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. Free software for MsExcel data transfer to download.

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