



### 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-S30A5	FMI-S30B1	FMI-S30B5	FMI-S30C1	FMI-S30C2	FMI-S30C5	FMI-S30K1	FMI-S30K2	FMI-S30K5
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
Temperature coefficient*	% / K	0,02								
Repeatability*	% F	0,03								
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								
Breaking force*	% F(nom)	500						200		
Display	Type	5-digit   12mm   Autoreverse								
	Refresh time (ms)	10 ... 1000								

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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	without	
Power supply	Type	Solar cell   USB (max. 900 mA)	
	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 82 x 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), Quickstart manual, transport and protective case. Free software for MsExcel data transfer to download.

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