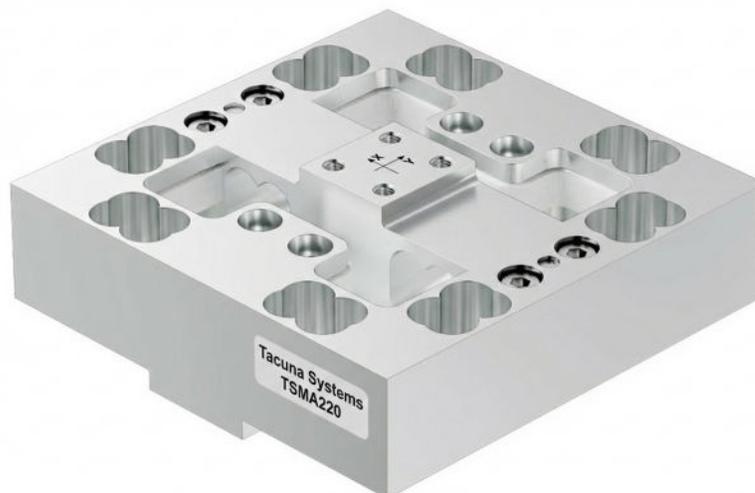




## T SMA220

Triaxial Load Cell/Force Sensor



### Features

- Capacity: 2000N, 5000N
- 3-component force sensor  $F_x$ ,  $F_y$ ,  $F_z$
- Material: Aluminum
- Protection class: IP65
- Machine tool instrumentation
- Tribology testing
- Test benches
- Materials testing
- Reaction force measurement
- Medical

### Technical data

Measuring range				
Maximum Capacity ( $E_{max}$ )	N	$F_x(2000N...5000N)$	$F_y(2000N...5000N)$	$F_z(2000N...5000N)$

Performance				
Accuracy Class	-	G5	G5	G5
Nonlinear error	%FS	$\leq \pm 0.5$	$\leq \pm 0.5$	$\leq \pm 0.5$
Repeatability error	%FS	$\leq \pm 0.5$	$\leq \pm 0.5$	$\leq \pm 0.5$
Compensated Temperature Range	°C		-10 to 40	
Operating Temperature Range	°C		-30 to 70	
Temp. Coeff - Zero	%FS/10°C		$\leq \pm 0.2$	
Temp. Coeff - Span	%FS/10°C		$\leq \pm 0.2$	
Safe Overload	%FS		150	
Ultimate Overload	%FS		200	

Electrical @25°C				
Rated Sensitivity	mV/V		$2.0 \pm 0.2$	
Zero Balance	%FS		$\pm 1$	
Excitation Voltage	VDC		5 to 10	
Max. Excitation Voltage	VDC		18	
Insulation Resistance	MΩ@50VDC		5000	
Input Resistance	Ω		$750 \pm 50$	
Output Resistance	Ω		$700 \pm 5$	
Cable Specification	-		4 conductor PVC shielded cable, Cable Ø3.8 x 2 m	

Physical Specifications				
Material	-		Aluminum	
Protection	-		IP65	
Weight, without cable, approx.	g		700	

Dimensions in mm [in]

