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ST1

Axis Load Measurement Cell

More information

ST1 Axis Load Cell

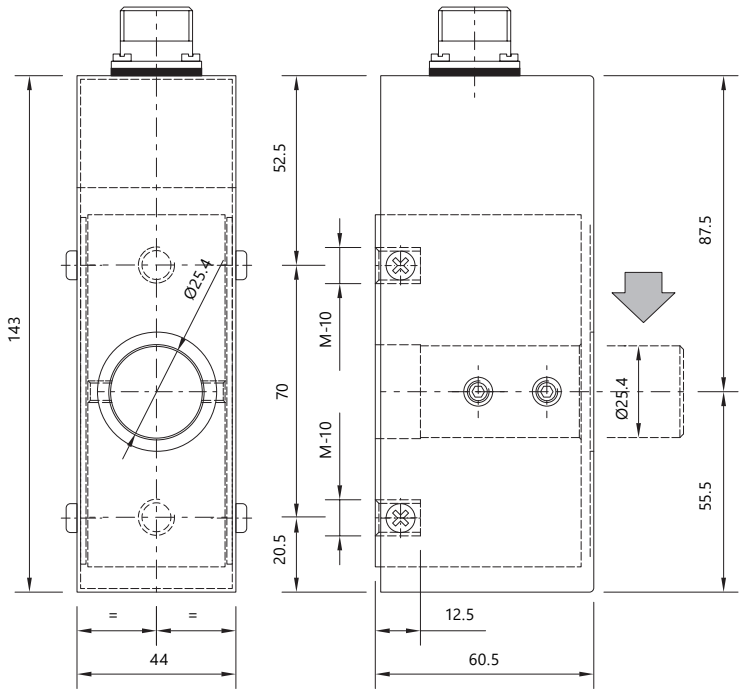
The ST1 model is designed to measure the force exerted on an axle. For example, on applications for winding control. It is a very useful model to regulate the tension of threads, based on the resistance of the materials for this type of operation.

The cell is covered by a sheet metal coating with corrosion-resistant oven paint.

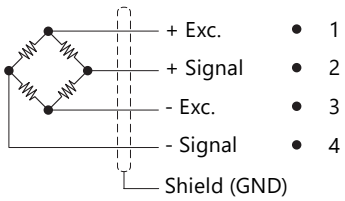
Specifications

Parameter		Units	Specifications	
Model		-	ST1	
Nominal Force (N.F.)		lb (kg)	22 (11.3)	50 (22.7)
Nominal Sensibility (N.S.)		-	± 0.1%	
Zero balance		%N.F.	± 5	
Maximum excitation voltage		V	12	
Hysteresis error		%N.F.	0.07	
Maximum linearity error		%N.F.	± 0.065	
Temperature range	Compensated	°C (°F)	-10 ... +40 (+14 ... +104)	
	Operating		-20 ... +60 (-4 ... +140)	
	Storage		-20 ... +70 (-4 ... +158)	
Min. Insulation resistance (V.Test = 100V)		GΩ	4	
Input resistance		Ω	350	
Output resistance		Ω	350	
Load limit	Maximum	%N.F.	150	
	Without characteristics loss		200	
Cable	Type	-	4 x 0.22mm² Ø6	
	Standard length	m	5	
	Material	-	Polyurethane (PU)	
Sensor	Material	-	Aluminum	
	Surface treatment	-	Anodized	
Protection class		-	IP53	

Dimensional drawings (mm) and wiring diagram



M-12 connector



Product Reference

Ref.	Nominal Force (N.F.)	Model
017280	lb 25	ST1
002928	lb 50	

For more information

www.dinacell.com

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