PT1MA Industrial Grade • 4..20mA • 0..20mA

Absolute Linear Position to 50 inches (1270 mm) Aluminum and Polycarbonate Enclosure Compact Design IP65 • NEMA 4 Protection

CE

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Full Stroke Range Options	0-2 to 0-50 inches
Output Signal Options	420 mA (2-wire) and 020 mA (3-wire)
Accuracy	see ordering information
Repeatability	\pm 0.05% full stroke
Resolution	essentially infinite
Measuring Cable	.019-in. dia. nylon-coated stainless steel
Enclosure Material glass	s-filled polycarbonate and anodized aluminum
Sensor	plastic-hybrid precision potentiometer
Potentiometer Cycle Life	see ordering information
Maximum Retraction Acce	leration see ordering information
Weight	1 lb. max.

ELECTRICAL

Input Voltage		see ordering information
Input Current		20 mA max.
Maximum Loop Resista	ance (Load)	(loop supply voltage - 8)/0.020
Circuit Protection		38 mA max.
Impedance		100M ohms@100 VDC, min.
Signal Adjust, Zero	from facto	ry set zero to 50% of full stroke range
Signal Adjust, Span		to 50% of factory set span
Thermal Effects		
Zero		0.01% f.s./°F, max.
Span		0.01% f.s./°F, max.

ENVIRONMENTAL

Enclosure	NEMA 4, IP 65			
Operating Temperature	0° to 200°F (-17° to 90°C)			
Vibration	up to 10 g to 2000 Hz maximum			

EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

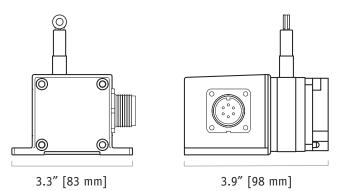
Emission/Immunity

EN50081-2/EN50082-2

20630 Plummer Street • Chatsworth, CA 91311 tel: 800.423.5483 • +1.818.701.2750 • fax: +1.818.701.2799



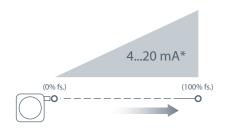




The PT1MA adds 4...20 mA position feedback signal to Celesco's compact line of cable-extension transducers. The PT1MA is available with full stroke ranges from as little as 2 inches on up to 50 inches with adjustable zero and span settings to precisely match the full scale output to your exact measurement range.

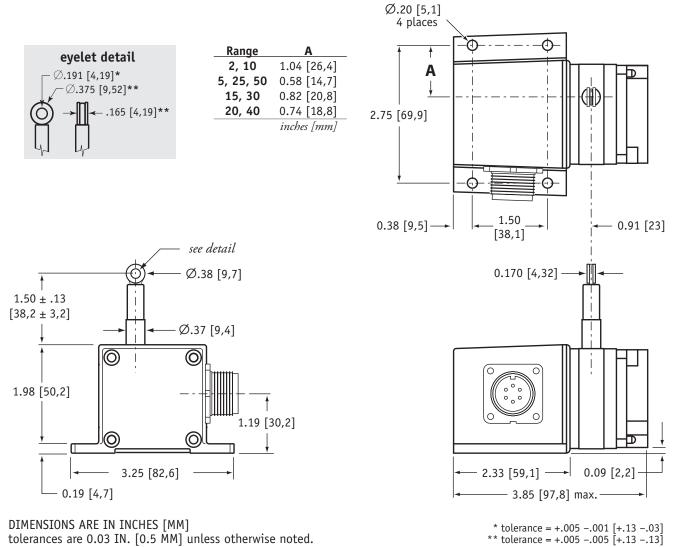
The PT1MA offers several options including forward and reverse 0...20 and 4...20 mA output signals, alternate measuring cable exits and a couple different electrical connection options.

Output Signal:



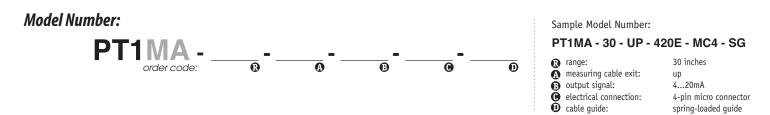
*Optional 3-wire, 0...20mA output signal available.

Outline Drawing:



tolerances are 0.03 IN. [0.5 MM] unless otherwise noted.

Ordering Information:



Full Stroke Ranae:

R order code:	2	5	10	15	20	25	30	40	50	
			10.1					-		
full stroke range, min:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	
accuracy (% of f.s.):	0.28%		6 6 6 6	0.18%			0.15%			
potentiometer cycle life:	2,500,000 cycles		6 6 6	500,000 cycles			250,000 cycles			
cable tension (20%):	12 oz.	5 oz.	12 oz.	9 oz.	6 oz.	5 oz.	9 oz.	6 oz.	5 oz.	
max. cable acceleration:	11 g	3 g	11 g	5 g	4 g	3 g	5 g	4 g	3 g	

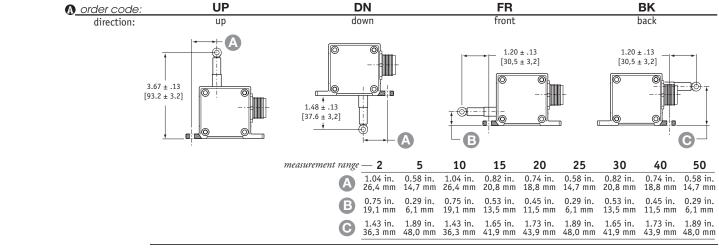
celesco

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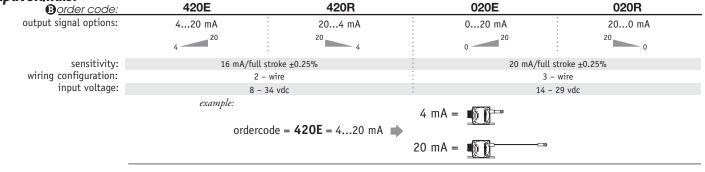
now Measurement Specialties, Inc.

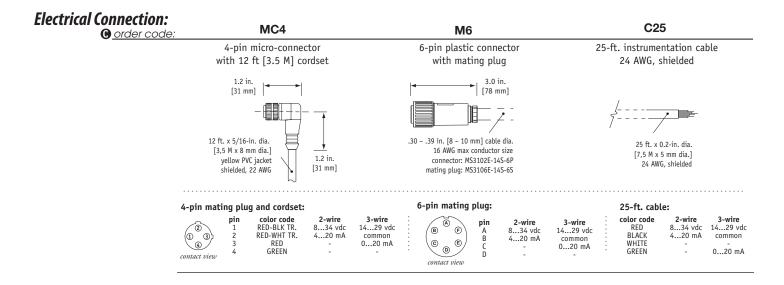
Ordering Information (cont.):

Cable Exit:



Output Signals:





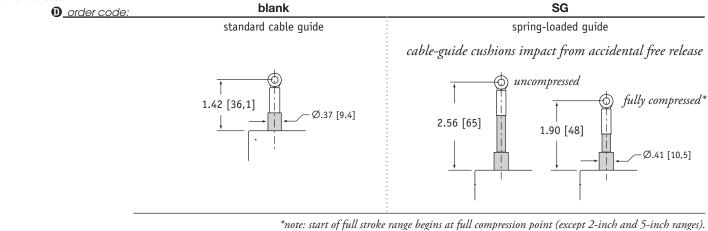
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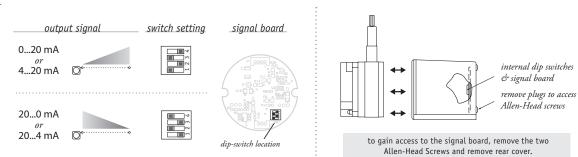
Ordering Information (cont.):

Cable Guide:



Output Signal Selection:

The output signal direction can be reversed at any time by simply changing the dip-switch settings found on the internal signal board. After the settings have been changed, adjustment of the Zero and Span trimpots will be required to precisely match signal values to the beginning and end points of the stroke.



version: 9.0 last updated: March 12, 2014