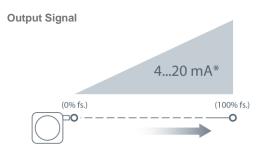




The PT1MA adds 4...20 mA position feedback signal to Celesco's compact line of cable-extension transducers. The PT1MA is available with full stroke ranges from as little as 2 inches on up to 50 inches with adjustable zero and span settings to precisely match the full scale output to your exact measurement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



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

PT1MA Cable Actuated Sensor Industrial Grade • 4..20mA • 0..20mA

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

IF05 • INEIVIA 4 FIOLE

General

Full Stroke Range	0-2 to 0-50 inches
Output Signal	420 mA (2-wire) and 020 mA (3-wire)
Accuracy	\pm 0.28% to \pm 0.15% full stroke (see ordering information)
Repeatability	± 0.05% full stroke
Resolution	essentially infinite
Measuring Cable	.019-in. dia. nylon-coated stainless steel
Enclosure	glass-filled polycarbonate and black anodized aluminum
Sensor	plastic-hybrid precision potentiometer
Potentiometer Cycle Life	see ordering information
Maximum Retraction Acceleration	see ordering information
Weight	1 lb. max.

Electrical

Input Voltage	see ordering information
Input Current	20 mA max.
Maximum Loop Resistance (Load)	(loop supply voltage - 8)/0.020
Circuit Protection	38 mA max.
Impedance	100M ohms@100 VDC, min.
Signal Adjust, Zero	from factory 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.
Thermal Effects, Span	0.01% f.s./°F, max.

Environmental

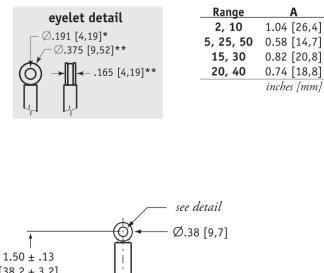
Enclosure	NEMA 4, IP 65
Operating Temperature	0° to 200°F (-17° to 90°C)
Vibration	up to 10 g to 2000 Hz maximum

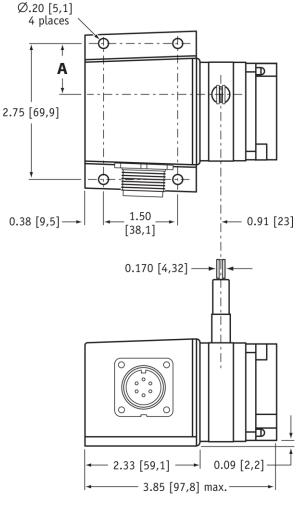
EMC COMPLIANCE PER DIRECTIVE 89/336/EEC

Emission/Immunity

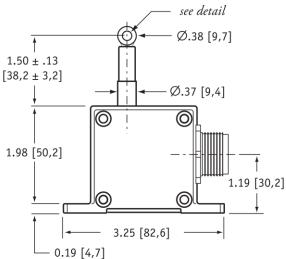
EN50081-2/EN50082-2

Outline Drawing





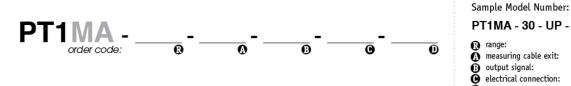
* tolerance = +.005 -.001 [+.13 -.03] ** tolerance = +.005 -.005 [+.13 -.13]



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

Ordering Information

Model Number:



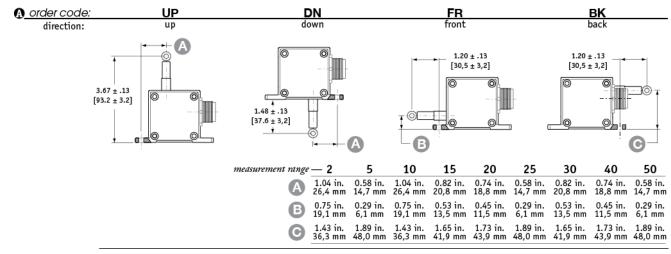
PT1MA - 30 - UP - 420E - MC4 - SG

range: 30 inches measuring cable exit: up output signal: 4...20mA electrical connection:cable guide: 4-pin micro connector spring-loaded guide

Full Stroke Range:

@ _order code:	2	5	10	15	20	25	30	40	50
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.):	0.2	8%		0.1	8%			0.15%	
potentiometer cycle life:	2,500,00	0 cycles		500,000) cycles		2	250,000 cycle	s
cable tension (20%):	12 oz.	5 oz.	12 oz.	9 oz.	б 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

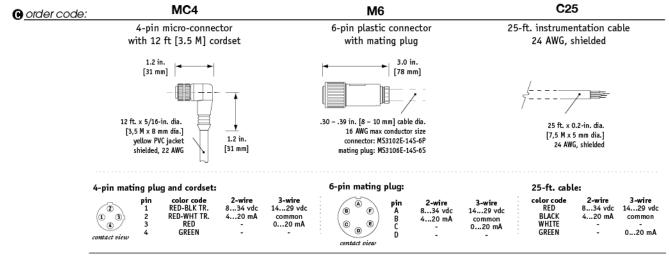
Cable Exit:



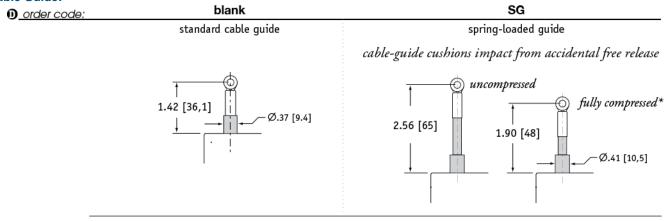
Output Signal:

Border code:	420E	420R	020E	020R		
output signal options:	420 mA	420 mA 204 mA		200 mA		
	4 20	20 4	0 20	20 0		
sensitivity:	16 mA/fu	l stroke ±0.25%	20 mA/full stroke ±0.25%			
wiring configuration:	2	– wire	3 – wire			
input voltage:	8 -	- 34 vdc	14 – 29 vdc			
	example:		4 mA =			
	order	ordercode = 420E = 420 mA 🗰				

Electrical Connection:



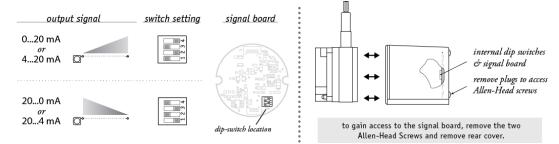
Cable Guide:



*note: start of full stroke range begins at full compression point (except 2-inch and 5-inch ranges).

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.



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