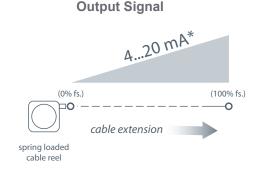


The PT8420 with its 4-20 mA feedback signal, is ideal for monitoring the stroke of a hydraulic cylinder and other applications requiring position data acquistion in harsh environments.

As a member of our family of NEMA 4-rated cable-extension transducers, the PT8420 provides a feedback signal that is proportional to the linear movement of a traveling stainless-steel extension cable. Simply mount the body of the transducer to a fixed surface and attach the extension cable to the moving object.



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

PT8420 Cable Actuated Sensor Industrial • 4..20 mA • 0..20mA

Absolute Linear Position to 60 inches (1524 mm) Aluminum or Stainless Steel Enclosure Options VLS Option to Prevent Free-Release Damage IP68 / NEMA 6 • Hazardous Area Certification

GENERAL

Full Stroke Range Options Output Signal Options

Accuracy Repeatability Resolution Measuring Cable Options Enclosure Material

Sensor Potentiometer Cycle Life Max. Retraction Acceleration

ELECTRICAL

Input Voltage Input Current Max. Loop Resistance (Load) Circuit Protection Impedance Signal Adjust, Zero

Signal Adjust, Span Thermal Effects, Zero Thermal Effects, Span

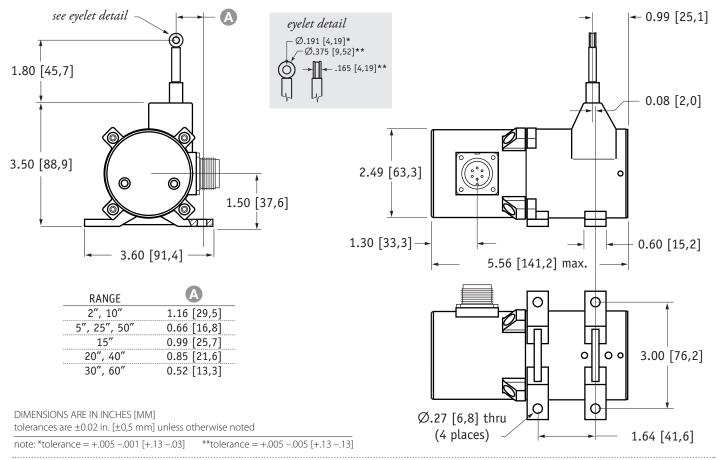
ENVIRONMENTAL

Enclosure Hazardous Area Certification Operating Temperature Vibration Weight, Aluminum Enclosure Weight, Stainless Steel Encl. 0-2 to 0-60 inches 4...20 mA (2-wire) and 0...20 mA (3-wire) see ordering information ± 0.05% full stroke essentially infinite stainless steel or thermoplastic powder-painted aluminum or stainless steel plastic-hybrid precision potentiometer see ordering information see ordering information

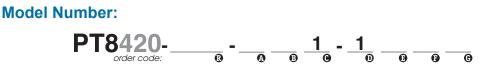
see ordering information 20 mA max. (loop supply voltage - 8)/0.020 38 mA max. 100M ohms@100 VDC, min. from factory set zero to 50% of full stroke range to 50% of factory set span 0.01% f.s./°F, max. 0.01% f.s./°F, max.

NEMA 4/4X/6, IP 67/68 see ordering information -40° to 200°F (-40° to 90°C) up to 10 g's to 2000 Hz maximum 3 lbs. max. 6 lbs. max.

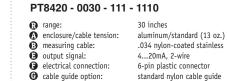
Outline Drawing:



Ordering Information:



Sample Model Number:



Full Stroke Range:

® <u>order code:</u>	0002	0005	0010	0015	0020	0025	0030	0040	0050	0060
full stroke range, min:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.
accuracy (% of f.s.):	1.00%	1.00%	0.18%	0.18%	0.18%	0.18%	0.18%	0.15%	0.15%	0.15%
potentiometer cycle life*:	2.5 x 10 ⁶	2.5 x 10 ⁶	5 x 10 ⁵	2.5 x 10 ⁵	2.5 x 10 ⁵	2.5 x 10 ⁵				

*-1 cycle is defined as the travel of the measuring cable from full retraction to full extension and back to full retraction

Enclosure Material and Measuring CableTension:

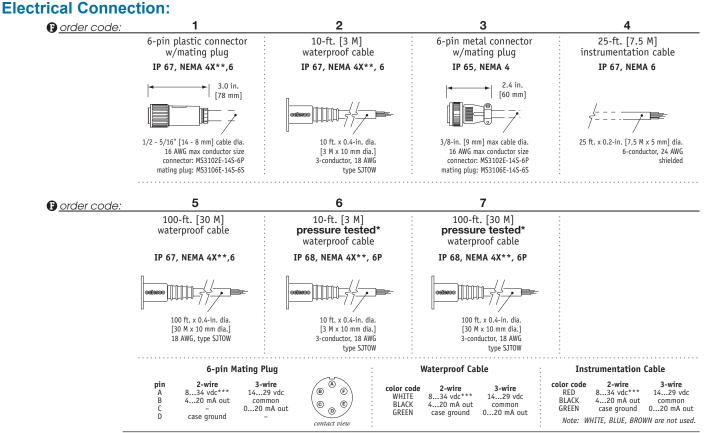
A order code:	1	{	5	2	3	6	6	4	8	7	,	9
enclosure:	aluminum			303 stainless				316 stainless				
cable tension:	standard medium		high	standard	medium		high	standard	medium		high	
max. acceleration:	15	g 25	g	40 g	6 g	12 g		18 g	6 g	12 g		18 g
		Range:	2 in.	5 in.	10 in.	15 in.	20 in.	25 in.	30 in.	40 in.	50 in.	60 in.
cable tension option specifications	1	Standard:	39 oz.	16 oz.	39 oz.	26 oz.	20 oz.	16 oz.	13 oz.	20 oz.	16 oz.	13 oz.
		Medium:	65 oz.	26 oz.	65 oz.	43 oz.	33 oz.	26 oz.	22 oz.	33 oz.	26 oz.	22 oz.
		High:	116 oz.	47 oz.	116 oz.	77 oz.	60 oz.	47 oz.	40 oz.	60 oz.	47 oz.	40 oz.
										tei	nsion tolera	nce: ± 50%

Ordering Information (cont.):

Measuring Cable:

B_order code:	1		2	3		4		
cable construction:	Ø.034-inch nylon- stainless steel ro		Ø.047-inch bare stainless steel rope	Ø.058-inch PVC vectra fiber r		Ø.031-inch bare stainless steel rope		
available ranges:	all ranges	5, 1	5, 20, 25, 30-inch only	thru 30 inches	only	40, 50, 60-inch only		
general use:	indoor		outdoor, debris, high temperature	high voltage magnetic fie		outdoor, debris, high temperature		
Output Signals:	1	2	3	4	5*	6*		
output signal options:	420 mA	204 mA	020 mA	200 mA	420 mA	204 mA		
sensitivity:	16 mA/full strok		20 mA/full st		16 mA/f	ull stroke ±0.25%		
wiring configuration: input voltage:	2 – wire		3 - v		2 – wire			
hazardous area certification:	8 – 34 vo		: 14 – 2 ertified	9 vdc	14 – 32 vdc CSA			
	<i>Example:</i> ordercode = 1 = 4	420 mA {	= 4 mA	= 20 mA	CSA	ardous Area Certification: CSA Standard 22.2 Class 1 Groups A, B, C and D		

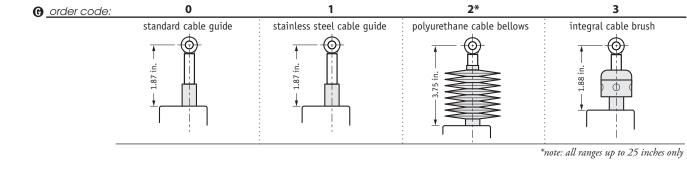
*IMPORTANT: intrinsically safe when powered from a CSA certified zener barrier rated 28 VDC max, 110 mA max per installation drawing#677984



*-Test pressure: 100 feet [30 meters] H₂O (40 PSID) Test Medium: Air; Duration: 2 hours. ** - applies to stainless steel enclosure only. ***14-32 VDC for hazardous area option.

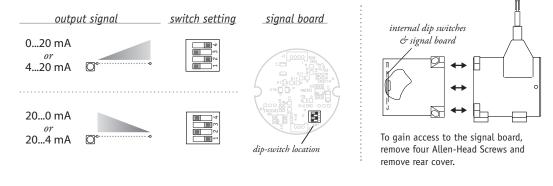
Ordering Information (cont.):

Cable Guide Options:



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.



VLS Option - Free Release Protection

The patented Celesco Velocity Limiting System (VLS) is an option for PT8000 Series cable extension transducers that limits cable retraction to a safe 40 to 55 inches per second.

The VLS option prevents the measuring cable from ever reaching a damaging velocity during an accidental free release. This option is ideal for mobile applications that require frequent cable disconnection and reconnection. It prevents expensive unscheduled downtime due to accidental cable mishandling or attachment failure.

VLS is NOT available for medium and high cable tension options, stainless steel enclosure, cable bellows or 2, 5 and 15-inch stroke ranges. How To Configure Model Number for VLS Option:

VLS8420-	®			<u> </u>	1			Ē	
	0015		1			1	1	0	
	0020		2			2	2	1	
	0025		3			3	3	3	
	0030		4			4	4		
	0040					5	5		
	0050					6	6		
	0060						7		
= available options**									
creating VLS model number (example):									
1. select PT8420 mode		PT	8420-	0060)-11	1-11	10		
2. remove "PT" from th	mber	8420-0060-111-1110							
3. add "VLS"	VL:	S +	8420-	0060)-11	1-11	10		
4. completed model n	,	VLS8420-0060-111-1110							

**Note: please contact factory for a solution to options not supported.

NORTH AMERICA

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 02560408-000

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 02560541-000
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 02560992-000
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