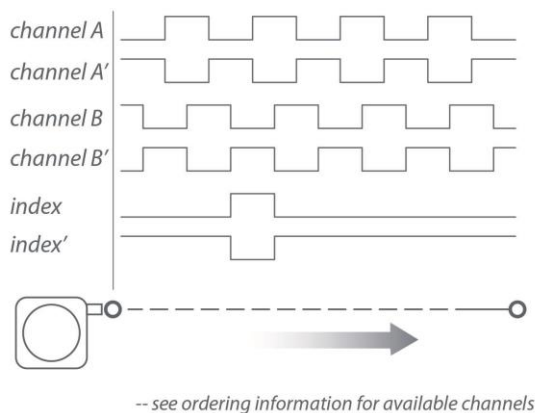




DPT250 케이블 확장 변환기는 위치 및 속도 정보를 모두 제공할 수 있는 매우 정확한 증분 인코더 출력 신호를 제공합니다. 출력은 1000분의 1인치 미만의 해상도를 제공할 수 있는 디지털 펄스 스트림입니다!

완벽한 병렬 정렬이 필요 없이 높은 정확도와 미세 분해능을 제공하는 이 소형 장치는 설치가 간편하고 모든 PLC 또는 컨트롤러에 인터페이스할 수 있는 기능이라는 추가 이점을 제공합니다. 이러한 기능으로 인해 DPT250은 유압 실린더 위치 지정에서 로봇 팔 동작 피드백에 이르기까지 다양한 응용 분야에 완벽한 선택이 됩니다.

Electrical Output Signal Options



DPT250

Cable Actuated Sensor Instrument Grade • Incremental Encoder

Short-Range String Encoder • High Resolution

25, 50-inch Stroke Range Options

Powder Painted & Anodized Aluminum Enclosure

Perfect Solution for Industrial & Testing Applications

General

Full Stroke Range	0-25 to 0-50 inches [0-625 to 0-1250 mm]
Options Output Signal	incremental encoder (quadrature)
Output Driver Options	TTL/CMOS, Open Collector, Line Driver .01
Accuracy	to .02 in. (see ordering information) .005
Repeatability	to .010 in. (see ordering information) 25 to
Resolution	1250 pulses per inch
Measuring Cable	0.019-in. dia. nylon-coated stainless steel
Enclosure Material	powder-painted and anodized aluminum
Sensor	optical encoder
Weight	2 lbs. max.

Electrical

Input Voltage	see ordering information
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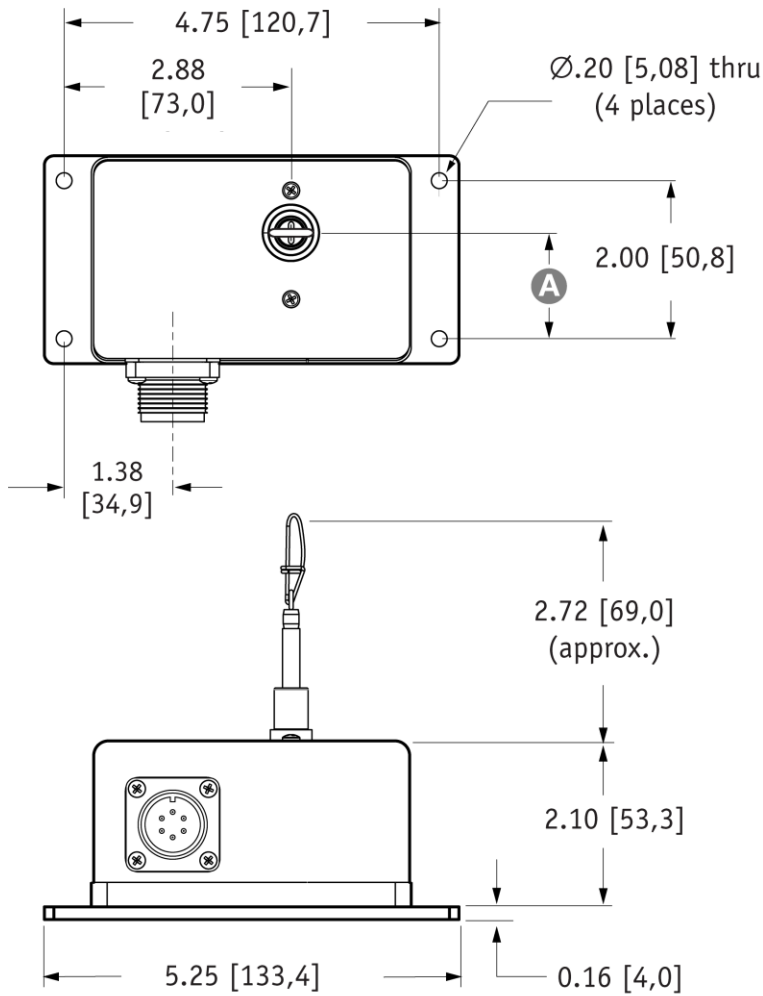
Environmental

Enclosure	IP 55, NEMA 12
Operating Temperature	0°F to 160°F (-20°C to 70°C)
Vibration	up to 10g to 2000 Hz
Humidity	98% RH, no condensation

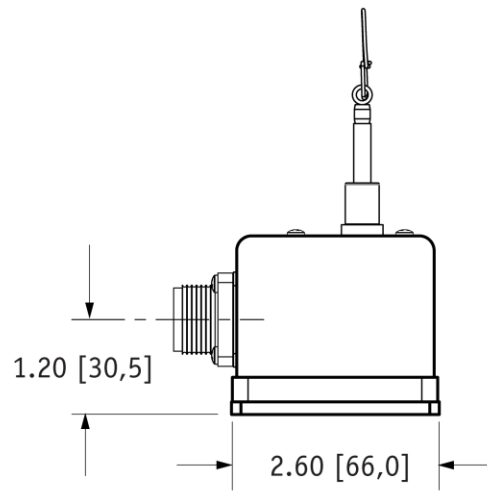
DPT250

Instrument Grade • Incremental

Outline Drawing:



Range	A
25", 625mm	1.31 [33,3]
50", 1250mm	1.63 [41,4]



ALL DIMENSIONS ARE IN INCHES [MM] • tolerances are ± 0.02 in. [$\pm 0,5$ mm]

Ordering Information

Model Number:

DPT250 - - **1** **1** - **0**
order code: **R** **A** **B** **C** **D** **E** **F** **G**

Sample Model Number:

DPT250 - 0025 - 111 - 1130

R range:	25 inches
A measuring cable tension:	standard - 12 oz.
D sensing circuit/channels:	TTL/CMOS, A,B
E resolution:	500 pulses per inch
F electrical connection:	6-pin plastic connector

Full Stroke Range:

R order code:	0025	0050	0625	1250
full stroke range, min:	25 in.	50 in.	625 mm	1250 mm
accuracy:	±0.010 in. (max)	±0.020 in. (max)	±0.25 mm (max)	±0.50 mm (max)
repeatability:	±0.005 in. (max)	±0.010 in. (max)	±0.12 mm (max)	±0.25 mm (max)
cable tension* (±30%):	13 oz.	6 oz.	3,6 N	1,6 N
cable acceleration, max.:	11 G's	4 G's	11 G's	4 G's
resolution options:	50, 500, 1000, 1250 pulses per inch	25, 250, 500, 625 pulses per inch	2, 20, 40, 50 pulses per mm	1, 10, 20, 25 pulses per mm

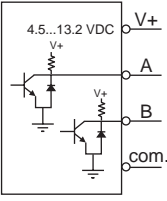
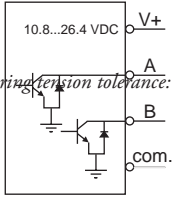
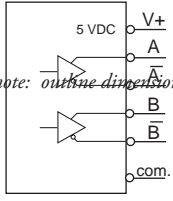
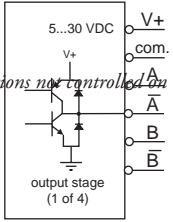
* 참고: 재주문에만 사용할 수 있는 증가된 케이블 장력 옵션(아래 참조)

Measuring Cable Tension:

A order code:	1	H
	standard tension*	high tension*
25 inch range:	13 oz.	65 oz.
50 inch range:	6 oz.	33 oz.
625 mm range:	3,6 N	18,1 N
1250 mm range:	1,6 N	9,2 N

*—note: spring tension tolerance: ±30%

Sensing Circuit / Channels:

D order code:	TTL / CMOS	open collector	line driver	universal line driver
description:	Input voltage (V+): 4.5...13.2 Vdc Sink current: 20 mA max. Input current: 80 mA max.	Input voltage (V+): 10.8...26.4 Vdc Sink current: 20 mA max. Input current: 80 mA max.	Input voltage (V+): 5 Vdc Sink current: 20 mA max. Input current: 150 mA max.	Input voltage (V+): 5...30 VDC Source/Sink: 20 mA max. Input current: 50 mA max, no load
				
		*—note: spring tension tolerance: ±20%	**—note: outline dimensions for these options not controlled on this datasheet.	

Resolution:

B order code:	1	2	3	4
25 in. range:	500 ppi	1000 ppi	1250 ppi	50 ppi
50 in. range:	250 ppi	500 ppi	625 ppi	25 ppi
625 mm range:	20 ppmm	40 ppmm	50 ppmm	2 ppmm
1250 mm range:	10 ppmm	20 ppmm	25 ppmm	1 ppmm

F order code:

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