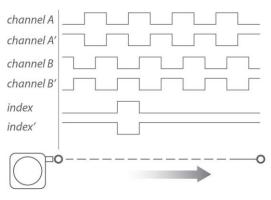




The DPT250 Cable-Extension Transducer offers a highly accurate incremental encoder output signal that can provide both position and velocity information. The output is a digital pulse stream that can provide resolution down to less than a thousandth's of an inch!

Delivering high accuracy and fine resolution without the need for perfect parallel alignment, this compact device offers the additional benefits of ease of installation and ability to interface to any PLC or controller. These features make the DPT250 the perfect choice for many applications that range from hydraulic cylinder positioning to robotic arm motion feedback.

Electrical Output Signal Options



-- see ordering information for available channels

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 Options0-2Output SignalindOutput Driver OptionsTTAccuracy.01Repeatability.00Resolution25Measuring Cable0.00Enclosure MaterialpoSensoropWeight21

0-25 to 0-50 inches [0-625 to 0-1250 mm] incremental encoder (quadrature) TTL/CMOS, Open Collector, Line Driver .01 to.02 in.(see ordering information) ,005 to .010 in.(see ordering information) 25 to 1250 pulses per inch 0.019-in. dia. nylon-coated stainless steel powder-painted and anodized aluminum optical encoder 2 lbs. max.

Electrical

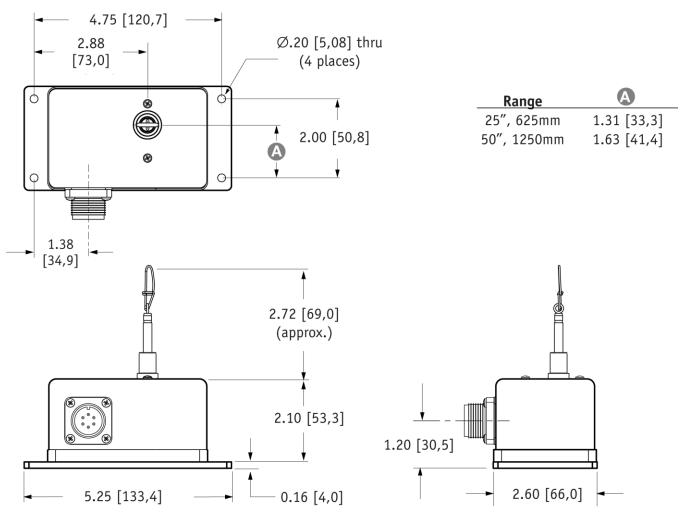
Input Voltage

see ordering information

Environmental

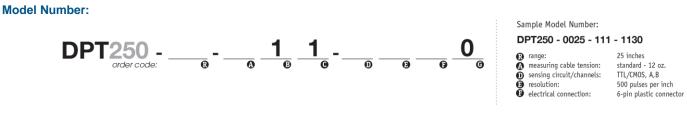
EnclosureIP 55, NEMA 12Operating Temperature0°F to 160°F (-20°C to 70°C)Vibrationup to 10g to 2000 HzHumidity98% RH, no condensation

Outline Drawing:



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

Ordering Information



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)	±.020 in. (max)	±0.25 mm (max)	±0.50 mm (max)
repeatability:	<u>+</u> 0.005 in. (max)	±.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	4 g	11 g	4 g
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

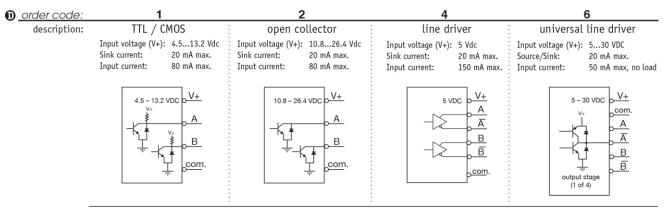
*note: increased cable tension options available (see below)

Measuring Cable Tension:

A order code:	1	н	
	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%

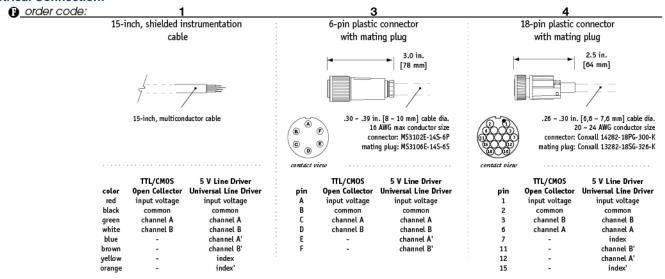
Sensing Circuit / Channels:



Resolution:

🕒 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

Electrical Connection:



NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity company 20630 Plummer Street Chatsworth, CA 91311 Tel +1 800 423 5483 Tel +1 818 701 2750 Fax +1 818 701 2799 customercare@chtw@te.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

DPT250 12/01/2015