

Installation Instructions

Size 20 Digital Tachometer, Bulletin 845PY

IMPORTANT: SAVE THESE INSTRUCTIONS FOR FUTURE USE.

Specifications

Electrical	
Code Format	Incremental, 2 channels
Quadrature	90° ±22° Channel A leads B CCW
Symmetry	50% ±10%
Power Requirements	Determined by catalog number: 5V DC ±5% @ 150mA maximum 11-20V DC @ 150mA maximum 24V DC @ 150mA maximum
Frequency Response	210kHz
Operating Speed	(100kHz x 60)/pulses per revolution = RPM or 15,000 RPM, whichever is lower
Resolution	Up to 3000 PPR on code disk
Output Drive Capability	Differential line driver = ±20mA
Mechanical	
Starting Torque	2.5 Ncm typical (3.5in-oz)
Running Torque	2.5 Ncm typical (3.5in-oz)
Slew Speed	15,000 RPM
Shaft Loading	Axial: 359N (80lbs) Radial: 222N (50lbs)
Shaft Size	7.94mm (5/16in) diameter
Environmental	
Housing	NEMA Type 4, IP66 (IEC 529)
Temperature	0°C to +60°C (+32°F to +140°F) — operating -25°C to +90°C (-13°F to +194°F) — storage
Humidity	98%, noncondensing
Shock	50g (11ms duration)
Vibration	20g (5 to 2000Hz)
Approximate Shipping Weight	0.56kg (20oz)

Accessories

Description	Part Number
Pre-Wired Cables	845-CA-PY-*
Mating Connectors	845-10P, 845-10P-RT
Differential Encoder Buffer Board	845-BB

Selection

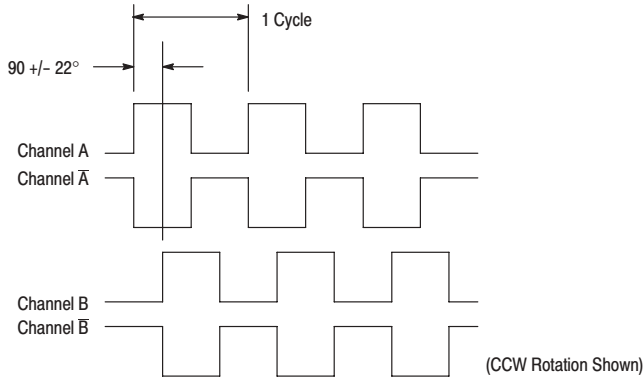
845PY — FW — 2 — C

a *b* *c*

<i>a</i>		<i>b</i>	
Resolution		Power Supply Option	
Code	Description	Code	Description
AM	5	1	5V DC ±5%
BG	10	2	11-20V DC
CA	50	3	24V DC ±10%
CB	60		
CE	64		
CF	80		
CG	100		
DB	120		
DF	150		
EB	180		
CH	200		
CJ	250		
CC	254		
CW	256		
EG	300		
CK	360		
CL	400		
CM	500		
DW	512		
EH	600		
DG	720		
DL	800		
LG	900		
CN	1000		
FW	1024		
EL	1200		
CD	1250		
RF	1280		
CU	1472		
EM	1500		
FL	1600		
CP	1800		
DN	2000		
CS	2048		
HL	2400		
CR	2500		
CY	2540		
LJ	2750		
EN	3000		

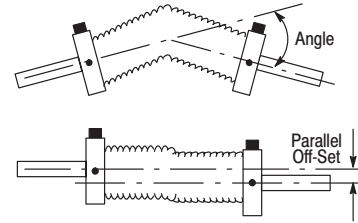
<i>c</i>	
Mating Connector	
Code	Description
Blank	Without Mating Connector
C	With Mating Connector

Differential Line Driver Output



ATTENTION: The shielded cables, output devices, and power supplies must be properly grounded. All National Electric Code and applicable local codes and ordinances must be observed when wiring the system.

Flexible Shaft Couplings



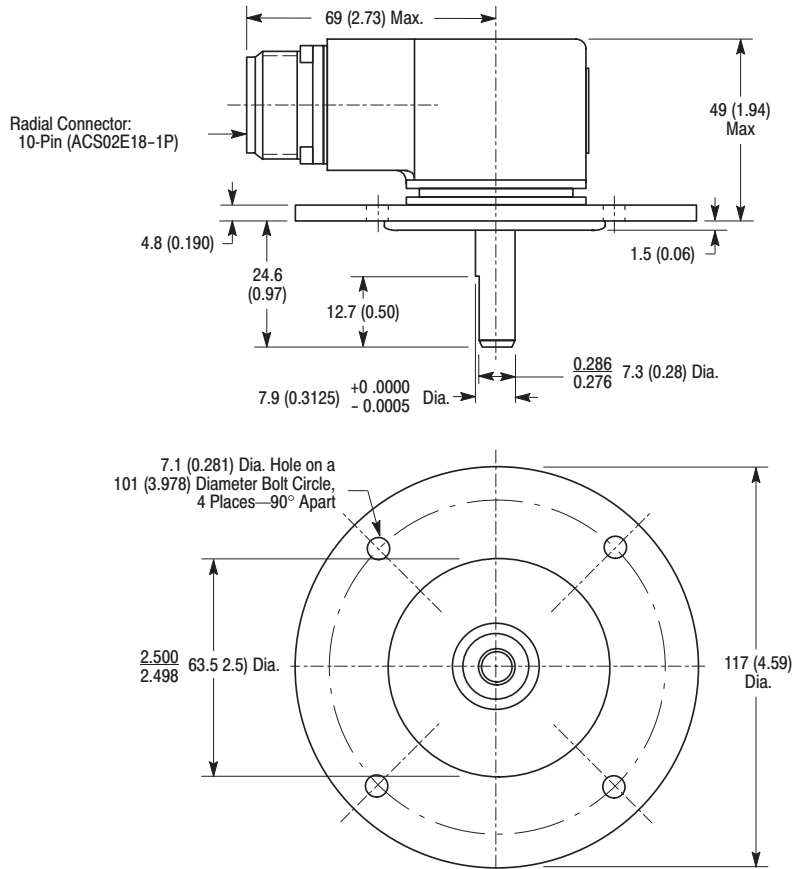
ATTENTION: Rigidly coupling the encoder shaft to the machine shaft **will cause a failure** in either the bearings of the encoder or the bearings of the machine shaft.

10-Pin Connector (ACS02E18S-1P (023))

Differential Line Driver Outputs

Pin	Function	Pin	Function
A	Channel A Output	F	DC Return
B	Channel B Output	G	No Connection
C	No Connection	H	Channel \bar{A} Output
D	DC+ Input	I	Channel \bar{B} Output
E	No Connection	J	No Connection

Dimensions (Approximate)—mm (inches)



5PY Flange Mount