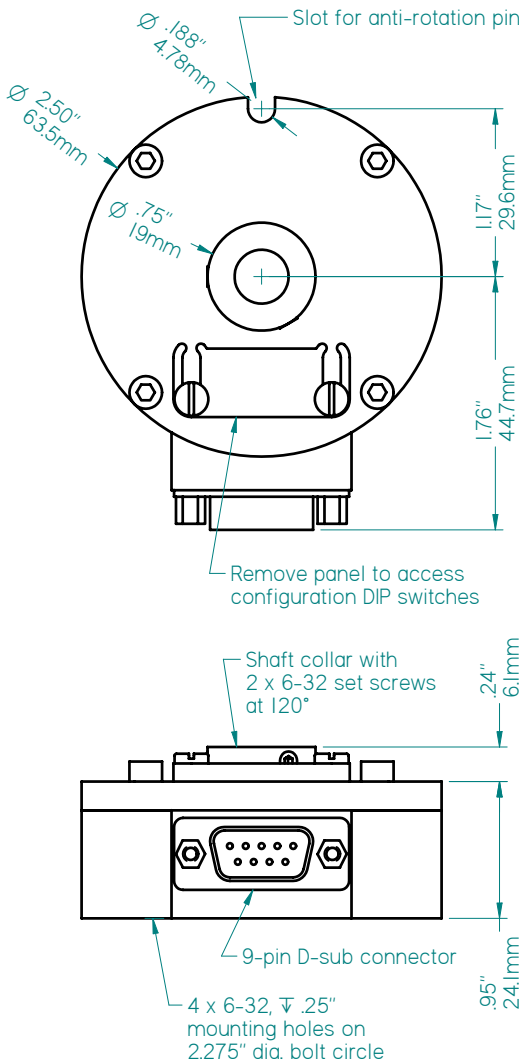


FEATURES

- DIP switch selectable pulses per revolution
- Pulse output with Anti-Jitter feature
- Direction of rotation on output B
- CE and RoHS compliant available
- ESD and short circuit protection
- 5 vdc and 8 to 30 vdc supply voltages
- 9-pin D-Sub or 4-pin M12 connector
- Non-programmable models available - see HS25

DIMENSIONS

(shown with 3/8" shaft bore and 9-pin D-sub connector)

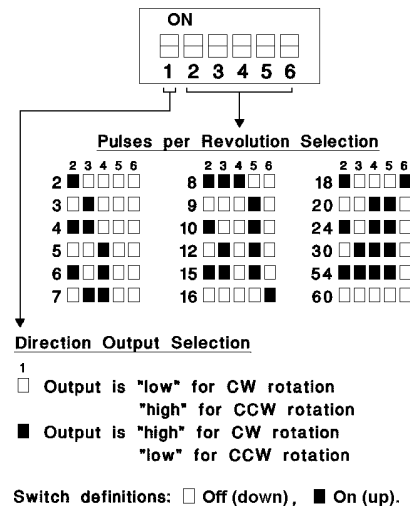


SPECIFICATIONS

Mechanical

Shaft Bore: Any up to 3/8", 10mm diameter
Maximum Speed: 2,500 rpm
Shaft Loading:
 — Radial: 5.5 lbs. / 2.5 kg max.
 — Axial: 2.2 lbs. / 1 kg max.
A flexible mounting bracket is required.
Bearing Life: 42 x 1,000,000/rpm = hours
If the encoder is rigidly attached to the machine frame, the bearings will fail.
Materials:
 — Case: Aluminum, anodized
 — Shaft: 303 Stainless steel
 — Switch cover: ABS plastic
Weight: 5.5 oz. (156 grams)
Enclosure Rating: IP50

Configuration Switches



Electrical

Supply Voltages: (specify when ordering)
 5 ± 5% VDC or 8-30 VDC
Current: 50 mA max (no load)
Pulse Rate: 0 - 30 kHz
Operating Temperature: 0° to 70° C
Output Circuit: (specify when ordering)
 Output voltage level is approximately the same as the input voltage level.
Single Ended:
 — 7273 open collector (30vdc/50mA max)
 — 7272 Push/Pull (50mA max source/sink)
Differential Line Driver:
 — 7272 line driver (output same as input volts)
 — RS422 line driver (regulated 5vdc output)
Pulse Output: 50/50 duty cycle square wave pulses per revolution on output A.
Direction Output: Output B indicates the direction of rotation when facing shaft collar. See configuration switch 1. Updated for each 1/540th of a revolution.
Anti-Jitter Feature: Increases pulse hysteresis by 1/2 of a pulse width. Call or see our website for more information.

Electrical Connections

Single Ended Outputs:

9-pin D-sub Pin No.	4-pin M12 Pin No.	Function	Wire Color
1	3	Common	Black
2	1	+vdc	Red
3	4	Output A	White
4	2	Output B	Green
5-9		not used	-

Differential Line Driver Outputs:

9-pin D-sub Pin No.	Pin No.	Function	Wire Color
1		Common	Black
2		+vdc	Red
3		Output +A	White
4		Output +B	Green
6		Output -A	Blue
7		Output -B	Brown
5, 8, 9		not used	-

MODEL NUMBER

HS25		P	270AJB					
Model Number								
Shaft Bore: A = 5/16", B = 3/8", C = 1/4", .188 = 3/16", M6 = 6mm, M8 = 8mm, M10 = 10mm								
		P = Programmable model						
		Program: name of factory configured program.						
Supply Voltage: 5 = 5vdc, 8-30 = 8 to 30 vdc								
Output Circuit: leave blank for push/pull C = NPN open collector, DH = 7272 line driver DL = RS422 line driver								
Connector: leave blank for 9-pin D-Sub, S3 = 4-pin M12 connector								
Modification Number: optional modification or special feature ID. Call or see our website.								
Accessories: leave blank for no accessories. Call or see our website for more information.								



PO Box 25135 Tampa FL 33622-5135, USA
 813-886-4000 800-237-0946
 tco.com • photocraftencoders.com

Example: HS25B-P270AJB/8-30 - 3/8" shaft bore, programmable model factory configured with the 270AJB program, 8-30 vdc, push/pull output, 9-pin D-Sub connector