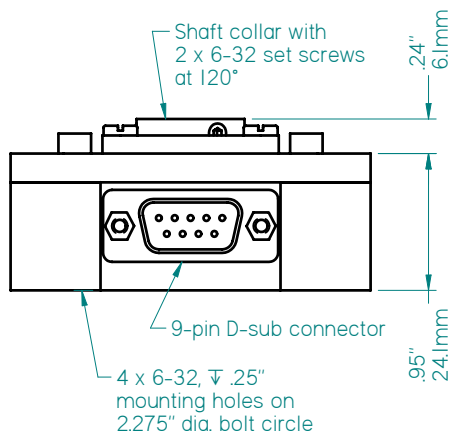
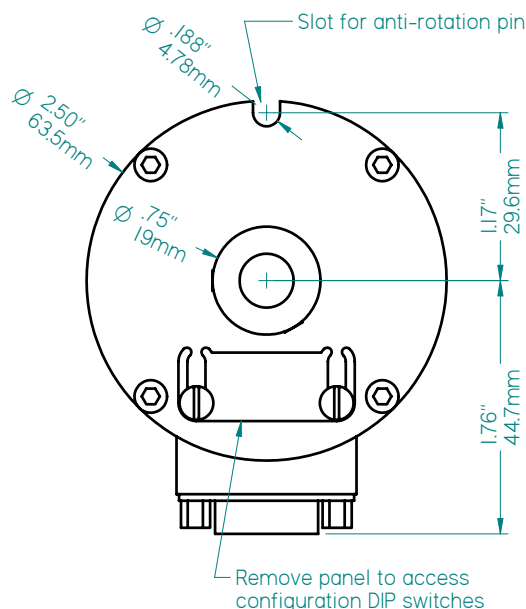


FEATURES

- Up to 3/8" or 10mm shaft bore diameter
- DIP switch selectable pulses per revolution
- Quadrature (A and B) pulse outputs
- 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:** 3,000 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**

ON					
☐	☐	☐	☐	☐	☐
1	2	3	4	5	6
Pulses per Revolution Selection					
1	2	3	4	5	6
2	15	60			
3	20	75			
4	25	100			
5	30	150			
10	50	300			

Switch definitions: ☐ Off (down), ☒ On (up).**Accessories**

See our website or contact us for more information about Cables, Flexible Mounting Brackets, and the Anti-Rotation Pin.

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)

Output Waveshape:

Square wave outputs A and B are 50/50 duty cycle nominal. A leads B by 90° for clockwise rotation when viewed from shaft collar end.

— Pulse symmetry: 180° ± 30%

— Pulse interval jitter: 30% max

— Quadrature: 90° ± 30% max

— Phase jitter: 30% max

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.	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	300Q				
Model Number	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.
Shaft Bore: A = 5/16", B = 3/8", C = 1/4", .188 = 3/16", M6 = 6mm, M8 = 8mm, M10 = 10mm						Accessories: leave blank for no accessories. Call or see our website for more information.

Example: **HS25B-P300Q/8-30** - 3/8" shaft bore, programmable model factory configured with the 300Q program, 8-30 vdc, push/pull output, 9-pin D-Sub connector



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