



NEW PRODUCT HIGHLIGHT

SIL3 FUNCTIONAL SAFETY INCREMENTAL ENCODERS

The goal of functional safety is to minimize or eliminate risk that can occur during normal and weakened operations of machines or industrial plants. To meet these market demands Sensata has developed a unique range of incremental encoders for the most diverse industrial applications. This extensive range can be used in the highest industrial safety related applications up to SIL3/PLe, Cat.4. and are as simple to implement as any other standard industrial installation. Sensata SIL3 Safety encoders exclusively featuring digital and sine/cosine analog electronic output options is an industry-first for safety encoders.

FEATURES

- Digital (TTL or HTL) or Analog Sin/Cos electronic output
- Wide selection of sizes and package styles: 58 mm and 90 mm OD, shafted and through shaft up to 30 mm
- Backward compatibility with non-safety rated encoders: Allows for existing installations to be easily upgraded
- Stainless steel housings: Withstands harsh environments, including AIS316 for food and beverage
- Ingress protection up to IP69K for reliability in all types of industrial environments

DIGITAL & SIN/COS SIL3 ELECTRONICS

WORLDWIDE RECOGNIZE CERTIFICATION BODY

90 MM

- Recognizable heavy duty design
- European tachometer mechanical interface
- IP66 Stainless steel offshore application
- Unique anti sliding shaft locks with insulated secured sleeves against leakage currents
- Statoric coupling and tether arm
- Third bearing for extreme robustness
- Stainless steel AISI 304 housing designed for offshore and harsh environment applications IP67













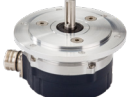







58 MM

- Shaft drive per key and flat
- Stainless steel AISI316 housing designed for F & B
- IP60 & IP69K offshore application
- Clean front mounting with rear clamp and key
- Clamped blind Shaft Mount
- Clean front mounting with 10:1 taper
- Stator Couplings



Up to SIL3 and PLe



Series	Mechanical Specifications	Shaft Type	Shaft Diameter	Resolution	Max. Speed	Termination
 DSM5H	58 mm Aluminium IP65		6, 10 mm and 3/8"	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	6000 RPM	Cable or M23 Connector Axial or Radial
 DSM5X	58 mm Stainless steel IP69K		10 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	3000 RPM	Cable Axial
 DST5H	58 mm Aluminium IP65		9.52mm to 14mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	6000 RPM	Cable or M23 / M12 connector Axial or Radial
 DSK5	58 mm Aluminium IP65		9.52mm to 14mm	2500	6000 RPM	Cable or M23 / M12 connector Axial or Radial
 DSK5HKB	58 mm Aluminium IP65		7.3mm, tapered 10%	2500	6000 RPM	Cable or M23 / M12 connector Axial or Radial
 DSM9H	90 mm Aluminium IP65		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
 DSM9X	90 mm Stainless steel IP66		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
 DSU9H	90 mm Aluminium IP65		20, 25, 30 mm and 1"	1024, 2048	3000 RPM	Cable or M23 Connector Radial
 DSU9X	90 mm Stainless steel IP66		20, 25, 30 mm and 1"	1024, 2048	1500 RPM	Cable or M23 Connector Radial

SHAFT TYPE



Shafted



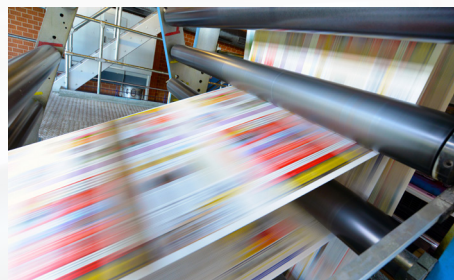
Blind Shaft



Through Shaft

APPLICATIONS

- Autonomous vehicles (AGVs)
- Co-operative robots
- Escalators and moving walkways
- Printing machines
- Steel and mills processes
- Conveyors with humans interaction



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