SIL APPROVED SAFETY ENCODER

SIL
Functional safety encoder

- SIL3/PLe compatible
- Diameter 58mm or 90mm, shaft 6-12mm or bore 14-30mm
- Resolution 250 - 2500 pulses per revolution
- A, B and Z channels, also inverted
- Also available with stainless steel body, IP69K



PRODUCT DESCRIPTION

SPECIFICATIONS

Sensor type	Incremental
Housing diametre	58 mm
Shaft Diameter min	6 mm
Shaft Diameter max	30 mm
Resolution max	2500 P/R
Connection Thread	Cable, M23 contact
IP Class	IP65
Speed max.	6000 rpm
Supply Voltage DC Min	5 V DC
Supply Voltage DC Max	30 V DC
Temperature range from	-20 °C
Temperature range to	85 °C
Output	Push/Pull, RS422, SinCos



Non-safety certified installation

Safety level: 0

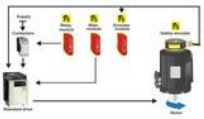
Retrofitting Existing Equipment

Ease of integration: n/a | Low-cost solution: n/a

New design

Ease of integration: n/a | Low-cost solution: n/a

n/a: not applicable



Modular safety solution

Safety level: up to SIL3/PLe

Retrofitting Existing Equipment

Ease of integration: +++ | Low-cost solution: +++

New design

Ease of integration: ++ | Low-cost solution: ++



Built-in safety solution

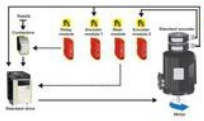
Safety level: up to SIL3/PLe

Retrofitting Existing Equipment

Ease of integration: + | Low-cost solution: +

New design

Ease of integration: +++ | Low-cost solution: +++



Redundant safety solution

Safety level: up to SIL2/PLd

Retrofitting Existing Equipment

Ease of integration: ++ | Low-cost solution: ++

New design

Ease of integration: + | Low-cost solution: +

	Model	Characteristics	Shaft type	Shaft diameter	Resolution	Max. speed	Termination
	DSM5H	58 mm Aluminium IP65	Shafted	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	Shafted	10 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	3000 RPM	Cable Axial
	DSO5H	58 mm Aluminium IP65	Through shaft	14 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	4000 RPM	Cable or M23 Connector Radial
	DSM9H	90 mm Aluminium IP65	Shafted	11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
	DSM9X	90 mm Stainless steel IP66	Shafted	11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
	DSU9H	90 mm Aluminium IP65	Through shaft	20, 25, 30 mm and 1"	1024, 2048	3000 RPM	Cable or M23 Connector Radial
	DSU9X	90 mm Stainless steel IP66	Through shaft	20, 25, 30 mm and 1"	1024, 2048	1500 RPM	Cable or M23 Connector Radial

Shafted Through shaft



Non-safety certified installation

Safety level: 0

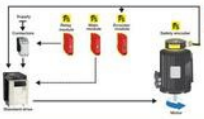
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New design

Ease of integration: n/a | Low-cost solution: n/a

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Modular safety solution

Safety level: up to SIL3/PLe

Retrofitting Existing Equipment

Ease of integration: +++ | Low-cost solution: +++

New design

Ease of integration: ++ | Low-cost solution: ++



Built-in safety solution

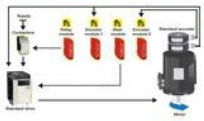
Safety level: up to SIL3/PLe

Retrofitting Existing Equipment

Ease of integration: + | Low-cost solution: +

New design

Ease of integration: +++ | Low-cost solution: +++



Redundant safety solution

Safety level: up to SIL2/PLd

Retrofitting Existing Equipment

Ease of integration: ++ | Low-cost solution: ++

New design

Ease of integration: + | Low-cost solution: +

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Shafted Through shaft