

## 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

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

**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/PL4  
**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/PL4  
**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/PL3  
**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
DSMSH	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
DSMSX	58 mm Stainless steel IP65K		10 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	3000 RPM	Cable Axial
DSQSH	58 mm Aluminium IP65		14 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	4000 RPM	Cable or M23 Connector Radial
DSMSH	90 mm Aluminium IP65		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
DSMSX	90 mm Stainless steel IP65		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
DSUSH	90 mm Aluminium IP65		20, 25, 30 mm and 1"	1024, 2048	3000 RPM	Cable or M23 Connector Radial
DSUSX	90 mm Stainless steel IP65		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  
**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/PL4  
**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/PL4  
**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/PL3  
**Retrofitting Existing Equipment**  
 Ease of integration: ++ | Low-cost solution: ++  
**New design**  
 Ease of integration: + | Low-cost solution: +

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Shafted Through shaft