

## 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>Sensor type</b>	Incremental
<b>Housing diameter</b>	58 mm
<b>Shaft Diameter min</b>	6 mm
<b>Shaft Diameter max</b>	30 mm
<b>Resolution max</b>	2500 P/R
<b>Connection Thread</b>	Cable, M23 contact
<b>IP Class</b>	IP65
<b>Speed max.</b>	6000 rpm
<b>Supply Voltage DC Min</b>	5 V DC
<b>Supply Voltage DC Max</b>	30 V DC
<b>Temperature range from</b>	-20 °C
<b>Temperature range to</b>	85 °C
<b>Output</b>	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 SIL2, PLc**  
**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 SIL2, PLd**  
**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
DSMSH	58 mm Aluminum PPS		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 PPSK		10 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	3000 RPM	Cable Axial
DSOSH	58 mm Aluminum PPS		14 mm	250, 256, 360, 500, 512, 1000, 1024, 2048, 2500	4000 RPM	Cable or M23 Connector Radial
DSMSH	90 mm Aluminum PPS		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
DSMSX	90 mm Stainless steel PPS		11, 12 mm	1024, 2048	6000 RPM	Cable or M23 Connector Axial or Radial
DSUWH	90 mm Aluminum PPS		20, 25, 30 mm and 1"	1024, 2048	3000 RPM	Cable or M23 Connector Radial
DSUXK	90 mm Stainless steel PPS		20, 25, 30 mm and 1"	1024, 2048	1500 RPM	Cable or M23 Connector Radial

 Shafted  Through shaft

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