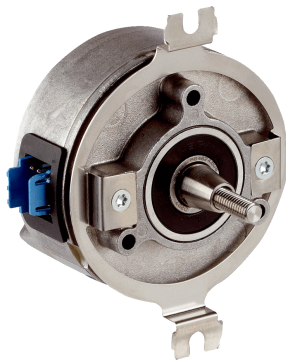# SRS/SRM50

Safe speed measurement with HIPERFACE® for demanding servo applications

SICK
Sensor Intelligence.

SRS/SRM50

Technical data overview

Type	For integration / Stand-alone (depending on type)
Model	Absolute Multiturn / Absolute Singleturn (depending on type)
Communication interface	HIPERFACE®
Sine/cosine periods per revolution	1,024
Safety system	– / ✔ (depending on type)
Mechanical interface	Solid shaft, face mount flange, 10 m, 19 mm Plug-in shaft, Rubber support, 17.7 mm Tapered shaft, Rubber support, 9 mm Tapered shaft, Spring mounting plate, 9 mm Tapered shaft, Resolver support, 9 mm Blind hollow shaft, 29.5 mm Solid shaft, Square flange, 22.1 mm Solid shaft with flat, Square flange, 22.1 mm Solid shaft, Servo flange, 6 mm, 10 mm
Connection type	Male connector, M23, 12-pin, radial Male connector, 8-pin, radial Cable, 8-wire, radial, 0.2 m Cable, 8-wire, radial, 2 m Male connector, MS, 10-pin, radial Cable, 8-wire, radial, 1.5 m
Available memory area	128 Byte E^2PROM 512 1,792 Byte E^2PROM 2048
Measurement principle	Optical

Product description

Used worldwide in a large variety of applications and environments - motor feedback systems of the SRS/SRM50 product family. With 1024 sine/cosine signals per revolution, this family represents the high-end solution of motor feedback systems with HIPERFACE® interface. They use a precise metal code disk and the largest possible distance between the two ball bearings. Absolute location indication with an increment number of 32,768 increments per revolution and a maximum of 4,096 revolutions. Storage of motor-specific data in the electronic type label and the programming are important features of this product family. The motor feedback systems certified to SIL2/PL d meet current requirements with regard to safety technology and make the certification process easier.
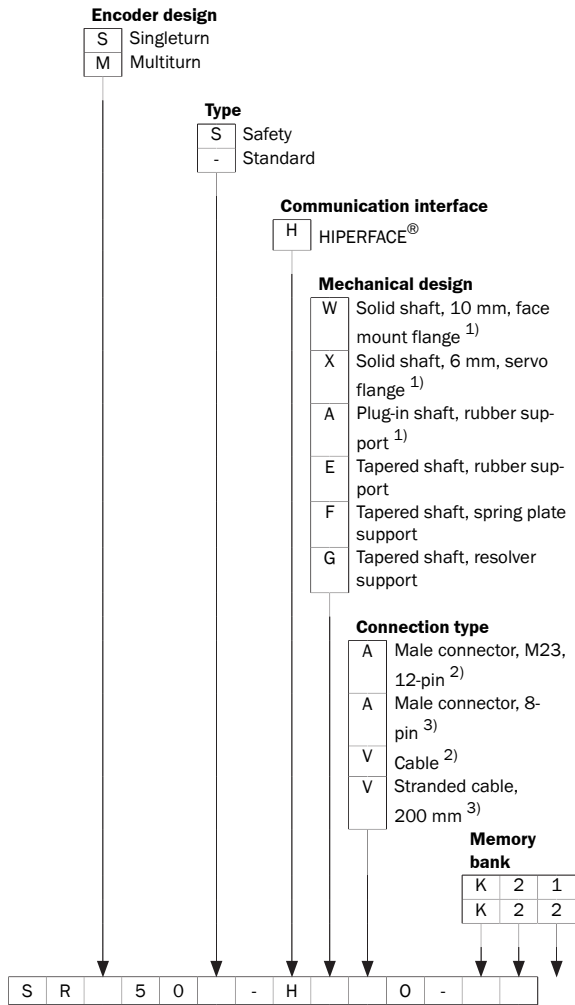
At a glance

- Motor feedback systems for the top performance range
- 1,024 sine/ cosine periods per revolution
- Absolute position with a resolution of 32,768 increments per revolution and 4,096 revolutions with the multiturn system
- HIPERFACE® interface: Programming of the position value and electronic type label
- Insert shaft or tapered shaft with various torque supports
- Integrated version, mounted version or stand-alone design
- Certified according to SIL2/PL d (only valid for SRS50S/SRM50S...)
- Conforms to RoHs

Your benefits

- Motor feedback system with HIPERFACE® interface
- High shock/vibration resistance thanks to built-in metal code disk
- Consistent motor design due to identical size of single and multiturn design
- To use of a motor feedback system certified to SIL2/PL d makes it easier to have your system certified.
- Very smooth running thanks to maximum ball bearing distance

Type code

Other models and accessories ➜ www.sick.com/SRS_SRM50

Encoder design

S	Singleturn
M	Multiturn

Type

S	Safety
-	Standard

Communication interface

H	HIPERFACE®

Mechanical design

W	Solid shaft, 10 mm, face mount flange [1]
X	Solid shaft, 6 mm, servo flange [1]
A	Plug-in shaft, rubber support [1]
E	Tapered shaft, rubber support
F	Tapered shaft, spring plate support
G	Tapered shaft, resolver support

Connection type

A	Male connector, M23, 12-pin [2]
A	Male connector, 8-pin [3]
V	Cable [2]
V	Stranded cable, 200 mm [3]

Memory bank

K	2	1
K	2	2

S	R	5	0		-	H			O	-			

[1] Only for standard type.

[2] For mechanical version W and X.

[3] For mechanical version A, E, F and G.

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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